D..o66 part 6

HMSHE81	784966	8218	HMMER 2.1.1	PFAM: PX domain	PF00787	29.1	128	421
HMSDL70	909997	8240	blastx.14	(AF083331) kinesin-like protein KIF1B [Rattus norvegicus]	gi|3493139|gb|AAC3 3292.1|	100%	2	103
HMSBO95	796724	8258	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.61	273	302
HMMBL55	731523	8320	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.03	227	271
HMMAT08	959005	8327	blastx.14	DOCK180 protein [Homo sapiens]	gi|1339910|dbj|BAA0 9454.1|	49% 66%	137 310	301 426
HMCHZ77	771795	8350	HMMER 2.1.1	PFAM: Nucleoside transporter	PF01733	81.6	5	283
HMALZ77	856266	8362	HMMER 2.1.1	PFAM: Isochorismatase family	PF00857	88.5	2	232
HMAJL09	950168	8365	HMMER 1.8	PFAM: ADP-glucose pyrophosphorylase	PF00483	150.92	20	256
			blastx.14	f270 [Escherichia coli]	gi|290545|gb|AAA62 048.1|	100% 100%	254 468	469 512
HMAIQ20	669436	8367	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	3.43	172	234
HMAIH15	956705	8368	blastx.2	Hypothetical protein MJ0456 [Escherichia coli]	dbj|BAA35499.1|	100%	3	203
HMAIA55	899404	8369	blastx.2	(AF027204) putative tetraspan transmembrane protein L6H [Homo sapiens]	gb|AAB82947.1|	35% 39%	188 601	532 789
HMADF74	944465	8377	HMMER 2.1.1	PFAM: Leucine Rich Repeat	PF00560	42.8	369	440

ID	cDNA	SEQ	Method	Description	Accession	Score		
HMACV54	922354	8379	blastx.2	leucine-rich repeat protein [Arabidopsis thaliana]	emb|CAA76000.1|	34%	294	674
HMABD66	388074	8381	HMMER 2.1.1	PFAM: Aldose 1-epimerase	PF01263	116	418	176
HLYHK61	932994	8386	blastx.14	GTP binding protein [Mus musculus]	gi|53169|emb|CAA36803.1|	88% 95% 96% 82% 90%	133 489 33 723 398	420 686 131 809 487
HLYHK34	703776	8387	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.18	436	519
HLYGQ11	966539	8401	HMMER 1.8	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	4.45	96	134
HLYEA70	943886	8431	HMMER 2.1.1	PFAM: Dihydrodipicolinate synthetase family	PF00701	22.8	304	408
HLYCF37	949401	8459	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.84	1249	1326
HLYBX91	790234	8463	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.14	710	754
HLMHL66	910804	8555	HMMER 2.1.1	PFAM: Fibrinogen beta and gamma chains, C-terminal globular domain	PF00147	40.5	157	252
			blastx.14	(AF107253) angiopoietin Y1 [Homo sapiens]	gi|4378598|gb|AAD19608.1|	65% 72% 30%	157 333 41	252 365 100
HLCDA67	887375	8581	HMMER	PFAM: BTB/POZ domain	PF00651	101.9	160	504

HJPAY56	909242	8600	2.1.1 HMMER 2.1.1 blastx.2	PFAM: Zinc finger, C2H2 type (AC004076) R30217_1 [Homo sapiens]	PF00096 gb|AAB97932.1|	39.9	78	146
						62%	3	212
						64%	3	206
						59%	3	200
						54%	3	206
						56%	6	206
						47%	9	212
						42%	3	233
						43%	18	212
						49%	3	191
						40%	21	212
						38%	3	206
						43%	21	191
						40%	3	212
						43%	12	212
						42%	3	149
						42%	3	149
						48%	6	161
						37%	69	212
						36%	3	149
						39%	166	234
						47%	172	234
						38%	172	234
						33%	172	234
						44%	181	234
						50%	181	234
						55%	181	234
						25%	154	234
						50%	181	234

						77%	208	234
						44%	181	234
						55%	208	234
						46%	190	234
HJPAA60	586675	8604	HMMER 2.1.1	PFAM: Adenosine/AMP deaminase	PF00962	78.6	96	533
HJBCZ05	925805	8611	HMMER 1.8	PFAM: TPR Domain	PF00515	12.67	205	291
			blastx.14	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gi|4809026|gb|AAD30062.1|	88%	520	840
						98%	85	357
						58%	798	869
						25%	151	258
HHEZO92	942859	8638	HMMER 2.1.1	PFAM: tRNA synthetase class II (G, H, P, S and T)	PF00587	59.7	94	450
			blastx.14	(AC002131) Similar to seryl-tRNA synthetase 1 [Arabidopsis thaliana]	gi|3157938|gb|AAC17621.1|	62%	97	306
						47%	325	507
HHEWX06	933879	8643	blastx.14	ORF 3 [Rattus norvegicus]	gi|57053|emb|CAA29033.1|	32%	38	241
						53%	5	43
HHEPG59	925436	8681	blastx.14	IP63 protein [Rattus norvegicus]	gi|2764951|emb|CAA67705.1|	58%	251	66
						52%	541	440
						50%	346	257
HHEMG02	917366	8704	blastx.14	similar to NIFS protein (nitrogen fixation) [Caenorhabditis elegans]	gi|722379|gb|AAC46685.1|	67%	525	608
						56%	441	488
						53%	641	685
HHELA35	878217	8711	HMMER 2.1.1	PFAM: Beta-lactamase	PF00144	175.4	118	450
HHEKZ12	878267	8712	HMMER 1.8	PFAM: Beta-lactamases	PF00144	132.1	102	380
HHEAJ78	773538	8739	HMMER	PFAM: Helicases	PF00271	3.92	2	82

HHEAA02	932265	1.8 blastx.14	conserved C-terminal domain The ha1438 gene product is related to a C728 protein 1	gi|559715|dbj|BAA07556.1|	87% 60% 88% 100% 100% 88% 58% 57% 25%	53 35 519 563 491 441 567 448 41	445 103 569 592 517 467 617 489 160
HFSAG03	960973	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	6.39	454	365
HEOOA49	942561	HMMER 2.1.1 blastx.2	PFAM: FAD binding domain Aip2p [Saccharomyces cerevisiae]	PF01565 gb|AAA79142.1|	115.8 73% 50% 42%	1 1 343 549	201 252 549 626
HEONO59	741361	HMMER 2.1.1 blastx.2	PFAM: Fibronectin type III domain (AF117210) host cell factor 2 [Homo sapiens]	PF00041 gb|AAD27814.1|AF117210_1	39.4 99% 97% 97%	508 331 23 707	582 702 253 847
HEONL09	961147	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	9.17	96	152
HEOMX01	913683	blastx.14	alpha-3 type IX collagen [Homo sapiens]	gi|1196421|gb|AAC41947.1|	40% 36% 31% 27% 32%	349 328 325 316 331	480 468 468 513 468

Clone	ID	Method	Description	Accession	% Identity		
					34%	328	468
					61%	241	279
					35%	328	411
					41%	337	408
					77%	241	267
					63%	241	273
					58%	244	279
					66%	306	332
					35%	185	244
					28%	394	468
HDTJF05	931977	blastx.14	polyprotein [Hepatitis C virus]	gi|464178|dbj|BAA03581.1|	53%	394	438
					47%	168	218
					50%	49	90
					60%	208	237
					75%	258	281
HDTIO74	933606	blastx.14	(AL021749) protein phosphatase 2C-like protein [Arabidopsis thaliana]	gi|2842482|emb|CAA16879.1|	45%	148	5
HDTIO16	934151	HMMER 2.1.1	PFAM: WD domain, G-beta repeat	PF00400	117.6	164	283
		blastx.14	(AF072880) SOCS box-containing WD protein SWiP-1 [Homo sapiens]	gi|4754060|gb|AAD28808.1|AF072880_1	99%	2	613
					85%	610	672
					70%	686	715
HDTDP02	919572	blastx.14	(AF151872) CGI-114 protein [Homo sapiens]	gi|4929697|gb|AAD34109.1|AF151872_1	76%	135	212
HDTDD72	587710	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	85.33	165	350
HDTDB37	587699	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.43	201	218
HDTCC55	934923	blastx.14	(AL117483) hypothetical	gi|5911963|emb|CAB	46%	306	389

Clone			Method	Description	Accession	Score		
				protein [Homo sapiens]	55956.1|	46% 35% 42%	453 4 105	542 105 167
HDTBD67	899636	8860	HMMER 1.8	PFAM: Laminin G domain	PF00054	53.09	615	1004
HDTBD67	902517	9731	HMMER 1.8	PFAM: Laminin G domain	PF00054	53.23	278	667
HDTAA31	937609	8871	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.8	1331	1408
HDTAA31	941948	9732	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.8	1331	1408
HDPXN01	915919	8899	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	4.29	99	146
HDPUN39	957580	8916	HMMER 2.1.1	PFAM: HECT-domain (ubiquitin-transferase).	PF00632	197.8	1783	1067
			blastx.14	hypothetical protein 2 - human (fragment)	pir|B38919|B38919	66%	1723	1070
HDPSB10	961309	8928	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	32.9	67	135
			blastx.2	(AF091457) zinc finger protein RIN ZF [Rattus norvegicus]	gb|AAD22522.1|AF091457_1	61%	1	252
HDPRR24	914667	8932	blastx.14	(AF086837) snapin [Homo sapiens]	gi|4206088|gb|AAD11417.1|	98%	144	410
HDPRJ04	909040	8934	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	52.4	192	263
			blastx.2	zinc finger protein ZNF132 [Homo sapiens]	gb|AAC50252.1|	40% 36% 46% 47%	12 12 335 335	377 377 553 553

538	335	47%
377	18	35%
377	12	34%
574	335	41%
377	12	34%
574	335	38%
377	12	31%
538	335	44%
377	12	28%
553	335	43%
377	12	30%
574	335	37%
377	12	31%
553	335	41%
377	12	31%
538	380	49%
556	326	36%
377	12	28%
371	39	30%
553	335	36%
571	380	35%
517	335	37%
377	12	27%
553	380	34%
538	380	33%
371	93	26%
194	51	33%
611	513	36%
611	570	50%
611	534	30%
611	573	69%

Clone	ID1	ID2	Method	Description	Accession	Score/%	Value1	Value2
						30%	534	611
						46%	573	611
						46%	573	611
						60%	582	611
						27%	513	599
						34%	303	365
						30%	513	611
						45%	292	354
						46%	573	611
						40%	327	371
						45%	544	576
						45%	544	576
HDPQI68	955006	8939	blastx.14	(AC007258) Putative ATPase [Arabidopsis thaliana]	gi|5080816|gb|AAD3 9325.1|AC007258_14	42%	200	490
						41%	530	646
						60%	523	582
						54%	155	187
HDPQF03	923120	8941	blastx.14	mitogen-activated protein kinase kinase (EC 2.7.-.-) 1	pir|JE0363|JE0363	85%	700	83
						54%	771	700
						100%	803	774
						66%	823	788
HDPLT62	973945	8959	HMMER 1.8	PFAM: Neurotransmitter-gated ion-channel	PF00065	102.12	417	746
			blastx	GABA receptor rho-3 subunit precursor [Rattus norvegicus]	dbj|BAA09322.1|	78%	414	797
						92%	262	411
HDPGS45	921381	8989	blastx.14	(AC004893) similar to NEDD-4 (KIA0093); similar to P46934 (PID:g1171682) [Homo sapiens]	gi|3694664|gb|AAC6 2434.1|	87%	366	226
HDPGS16	909833	8991	HMMER	PFAM: Protein kinase C	PF00433	57.51	287	445

			1.8	terminal domain				
HDPFZ70	709684		blastx.2	(AJ245709) Akt-3 protein [Homo sapiens]	emb|CAB53537.1|	100% 100%	236 3	460 116
		9003	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.5	662	745
HDPFB03	936331	9015	blastx.14	(AF043726) PHD-finger protein [Mus musculus]	gi|4529845|gb|AAD2 1792.1]	38%	341	553
HDPDD12	970592	9017	blastx.14	(AF000998) CLOCK [Mus musculus]	gi|2114488|gb|AAC5 3200.1]	86%	284	370
HDPCM62	454740	9031	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	2.03	152	208
HCWKR86	784705	9089	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.26	296	340
HCWFA35	908820	9114	HMMER 1.8	PFAM: DnaJ, prokaryotic heat shock protein	PF00226	116.61	80	274
			blastx.14	Curved DNA-binding protein cbpA [Escherichia coli]	gi|1651491|dbj|BAA3 6142.1]	98%	68	364
HCUGN19	716989	9181	HMMER 1.8	PFAM: Alcohol/other dehydrogenases, short chain type	PF00106	8.05	98	151
HCUGL20	668913	9184	HMMER 1.8	PFAM: Ank repeat	PF00023	7.2	190	261
HCFNG10	848225	9310	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	6.03	305	376
HCFMZ90	922112	9315	HMMER 1.8	PFAM: Beta-ketoacyl synthases	PF00109	194.57	291	872
			blastx.14	(AF021234) 3-oxoacyl-[acyl-carrier-protein]-synthase [Neurospora	gi|2522482|gb|AAB8 1078.1]	57% 56% 41%	465 255 91	824 494 306

				crassa]				
HCFMW71	920506	9316	HMMER 2.1.1	PFAM: Isopentenyl-diphosphate delta-isomerase	PF01772	55.5	198	362
			blastx.14	homologue of yeast IPP isomerase [Homo sapiens]	gi|488750|emb|CAA34890.1|	42% 62%	198 95	407 199
HCFMJ37	955281	9321	blastx.2	(AF161445) HSPC327 [Homo sapiens]	gb|AAF29005.1|AF161445_1	89% 95% 100%	203 18 610	610 83 654
HCFCG23	850426	9337	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	10.89	179	244
HBTAE84	781946	9355	HMMER 1.8	PFAM: ATPases associated with various cellular activities (AAA)	PF00004	20.81	122	232
HBMTB85	923730	9390	blastx.14	(AF093403) 2-amino-3-ketobutyrate-coenzyme A ligase [Mus musculus]	gi|4093159|gb|AAC99774.1|	93% 100% 100%	3 261 217	182 317 258
HBMBF89	912789	9415	blastx.14	Rab24 protein [Mus musculus]	gi|438164|emb|CAA80472.1|	95% 89%	287 96	412 152
HBJNB52	726475	9423	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	3.77	193	252
HBJLR37	849633	9437	HMMER 2.1.1	PFAM: Ribosomal protein S26e	PF01283	232.2	2	325
HBJLR31	900883	9438	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	90	798	866
			blastx.2	(AF185576) POZ/zinc finger transcription factor ODA-8 [Mus musculus]	gb|AAF03152.1|AF185576_1	68% 33% 36%	606 618 66	953 893 185
HBJJX53	835733	9452	HMMER	PFAM: IG	PF00047	9.2	157	207

Clone	No.	#	Method	Description	Accession	Score	Start	End
			1.8	(immunoglobulin) superfamily				
HBJJT12	894345	9453	blastx.2	(AF161081) activatory receptor PIRIIbeta [Homo sapiens]	gb|AAD52965.1|AF161081_1	90% 73%	157 215	216 283
HBJIH60	930448	9461	HMMER 2.1.1	PFAM: Homeobox domain	PF00046	64	201	371
HBJHX73	971377	9466	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	1.57	181	204
			HMMER 1.8	PFAM: Laminin G domain	PF00054	13.48	931	1005
			blastx.14	contactin associated protein [Homo sapiens]	gi|1857708|gb|AAB48481.1|	50% 59% 33% 42% 43%	451 880 349 985 916	876 975 447 1041 963
HBJGT03	923800	9472	HMMER 1.8	PFAM: Cyclic nucleotide-binding domain	PF00027	8.96	41	100
HBJFC23	423885	9484	HMMER 2.1.1	PFAM: WD domain, G-beta repeat	PF00400	32.1	135	251
HBJAB15	660552	9522	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.72	145	171
HBDAD64	864344	9524	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.09	423	443
HBCCJ05	930956	9527	blastx.14	(AF164612) Gag protein [Homo sapiens]	gi|5802816|gb|AAD51794.1|AF164612_1	48% 47%	444 536	277 486
HBCBN51	952057	9532	HMMER 2.1.1	PFAM: alpha/beta hydrolase fold	PF00561	43.4	358	564
			blastx.14	similar to alpha/beta	gi|3878848|emb|CAB	40%	741	1007

hydrolase fold; cDNA EST 1	03219.1		58%	358	429
			57%	7	69
			62%	478	525
			45%	658	717
			54%	541	573

[053]   Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig indentifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences.   The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[054]   The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent

identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[055]   The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[056]   As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[057]   The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

[058]   Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[059]   Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[060]   · The predicted amino acid sequence can then be verified from such deposits.
Moreover, the amino acid sequence of the protein encoded by a particular clone can also
be directly determined by peptide sequencing or by expressing the protein in a suitable
host cell containing the deposited human cDNA, collecting the protein, and determining
its sequence.

RACE Protocol For Recovery of Full-Length Genes

[061]   · Partial cDNA clones can be made full-length by utilizing the rapid
amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc.
Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3'
end can be reconstructed to include the absent base pairs extending to the translational
start or stop codon, respectively. In some cases, cDNAs are missing the start codon of
translation. The following briefly describes a modification of this original 5' RACE
procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL)
and an antisense or complementary primer specific to the cDNA sequence. The primer is
removed from the reaction with a Microcon Concentrator (Amicon). The first-strand
cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL).
Thus, an anchor sequence is produced which is needed for PCR amplification. The
second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Per-
kin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI,
SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This
double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a
nested cDNA-specific antisense primer. The PCR products are size-separated on an
ethidium bromide-agarose gel and the region of gel containing cDNA products the
predicted size of missing protein-coding DNA is removed. cDNA is purified from the -
agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI,
and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites.
This DNA is transformed into bacteria and the plasmid clones sequenced to identify the
correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence
with the putatively identified homologue and overlap with the partial cDNA clone.
Similar methods known in the art and/or commercial kits are used to amplify and recover
3' ends.

[062]   Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[063]   An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[064]   Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be

used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the immune/hematopoietic antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant immune/hematopoietic antigen.

[065]   The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion

thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[066]   Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[067]   Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res. 16:7583-7600 (1988)*; Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res. 17:9494* (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies 5:58-61* (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[068]   Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus 15:59-* (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., Nuc. Acids Res. 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology 9: (1991)*.

[069]   The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[070]   Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of immune/hematopoietic associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[071]   The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[072]   The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[073]   The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the immune/hematopoietic polypeptides of the present invention in methods which are well known in the art.

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[074]   The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[075]   Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic

acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[076]   Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[077]   Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[078]   Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the

invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[079]   In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[080]   In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to

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the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of
SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In
preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ
ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these
polynucleotides, other polynucleotides that encode these polypeptides, and antibodies
that bind these polypeptides are also encompassed by the invention.

[081]   In further specific embodiments, polynucleotides of the invention comprise,
or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more
of the sequences delineated in the same row of column 6 of Table 1B, and the
polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or
fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and
polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of
Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that
encode these polypeptides, and antibodies that bind these polypeptides are also
encompassed by the invention.

[082]   In additional specific embodiments, polynucleotides of the invention
comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10
polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5'
10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic
acids which hybridize to the complement of these 20 contiguous polynucleotides under
stringent hybridization conditions or alternatively, under lower stringency conditions, are
also encompassed by the invention. Polypeptides encoded by these polynucleotides
and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these
polypeptides, and antibodies that bind these polypeptides are also encompassed by the
invention. Additionally, fragments and variants of the above-described polynucleotides,
nucleic acids, and polypeptides are also encompassed by the invention.

[083]   In additional specific embodiments, polynucleotides of the invention
comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10
polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5'
10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly
contiguous Nucleic acids which hybridize to the complement of these 20 contiguous
polynucleotides under stringent hybridization conditions or alternatively, under lower

stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[084]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[085]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[086]   In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10

polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[087]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[088]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[089]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of

one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides

of another sequence in column 6 corresponding to the same row are directly contiguous.

In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated

in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next

sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the

complement of these 20 contiguous polynucleotides under stringent hybridization

conditions or alternatively, under lower stringency conditions, are also encompassed by

the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other

polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that

bind these polypeptides are also encompassed by the invention. Additionally, fragments

and variants of the above-described polynucleotides, nucleic acids, and polypeptides are

also encompassed by the invention.

[090]   Many polynucleotide sequences, such as EST sequences, are publicly

available and accessible through sequence databases and may have been publicly

available prior to conception of the present invention. Preferably, such related

polynucleotides are specifically excluded from the scope of the present invention.

Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of

Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide

sequence described by the general formula of a-b, where a is any integer between 1 and

the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final

nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of

nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a +

14. More specifically, preferably excluded are one or more polynucleotides comprising a

nucleotide sequence described by the general formula of a-b; where a and b are integers

as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the

polynucleotides of the invention do not consist of at least one, two, three, four, five, ten,

or more of the specific polynucleotide sequences referenced by the Genbank Accession

No. as disclosed in column 6 of Table 3 (including for example, published sequence in

connection with a particular BAC clone). In further embodiments, preferably excluded

from the invention are the specific polynucleotide sequence(s) contained in the clones

corresponding to at least one, two, three, four, five, ten, or more of the available material

having the accession numbers identified in the sixth column of this Table (including for

example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a	Range of b	Accession #'s
HAMHB21	11	961376	1 - 3744	15 - 3758	AI760827, AW408019, AI253155, AI349366, AI356482, AA814034, AW075920, AW407984, AI760691, AA251937, AI766650, AA352825, AA243541, AI934100, AA352840, H72208, H72106, AW193021, AL035530, AL035530, and AL035530.
HASAX16	12	573692	1 - 305	15 - 319	AL356513, AL356513, AL356513, AL358796, and AL358796.
HASAY74	13	526312	1 - 375	15 - 389	AC006479, AC006479, AC006479, and AC006479.
HASAY89	14	958768	1 - 849	15 - 863	AI240823, AC012580, AC012580, AC012580, AL133502, and AL133502.
HASAY94	15	521835	1 - 89	15 - 103	AL133216, AC024998, AC024998, AL365438, AL365438, AL390122, AL133216, AL133216, AL133216, AC022702, AC022702, AC025796, AF198096, and AF198096.
HBCAL36	16	931477	1 - 553	15 - 567	AI908374.
HBCAL39	17	964871	1 - 587	15 - 601	AL117337, AF205588, AL022345, AL022345, AL022345, AL161931, AL161931, AL354975, AL354975, AL355583, AL355583, AL023808, AL354975, AF205588, AF205588, AL117337, AL117337, and AL117337.
HBCAM74	18	864366	1 - 437	15 - 451	AA642815.
HBCAR79	19	573989	1 - 415	15 - 429	AC021215.
HBCAS69	20	669802	1 - 274	15 - 288	
HBCAT17	21	503573	1 - 385	15 - 399	AI150061, AA382210, AC011448, and AC011448.
HBCAT63	22	573993	1 - 224	15 - 238	AI114447, AL133243, AL133243, AL133243, and AL133243.
HBCBM52	23	932514	1 - 657	15 - 671	AA312172.
HBCBX12	24	861018	1 - 219	15 - 233	AB023431, AC005954, AC005954, AC005954, and AC068475.
HBCBZ05	25	922800	1 - 713	15 - 727	
HBDAC79	26	935414	1 - 612	15 - 626	AA904376, H23157, AA663798, AA359944, AA448036, R61429, H09004, AA309011, AF126245, AP001785, and AP001785.
HBDAD04	27	614849	1 - 375	15 - 389	AI057188, AW273323, C15735, AI932257, AI028587, AI940493, AW043720, AW021811, AA858079, AW197210, AI791278, AA508647, C15853, AA181800, AW043729, AW008982, AI918922, AI985340, AA031428, AA282285, AC007392, Z82198, AL031121, AL121840, L24095, AC004882, AC005529, AC002070, AC008984, AL132985, AL049781, Z72006, AC005881, AL079305, AP000263, AC005888, AC003080, AC004935, AL035667, AC005610, AP000036, AC005186, AC004842, AL035696, AC003661, AC004503, AC009263, AL023581, AC003009, U41096, AL021368, AP000567, AC004933, AC003975, AP000494, AL008638, AF015262, AL049833, AL034350, AL031010, AJ229043, AP001069, AC006288, AL049561, AL024507, AC005701, AP000100, AC005792, AP000566, AL023283, AC011594, AC006377,

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HBDAF51	28	725481	1 - 496	15 - 510	N47629.
HBDAF61	29	864338	1 - 794	15 - 808	AC003963.
HBJAB59	30	557972	1 - 425	15 - 439	
HBJAC23	31	529753	1 - 234	15 - 248	AA313748, AC008013, AC006432, and Z61963.
HBJAG72	32	722723	1 - 504	15 - 518	
HBJAJ91	33	677397	1 - 307	15 - 321	
HBJAI75	34	953840	1 - 301	15 - 315	AL133163.
HBJAJ85	35	675904	1 - 105	15 - 119	AC002450.
HBJAV57	36	527998	1 - 387	15 - 401	AC004976.
HBJAY76	37	527908	1 - 286	15 - 300	
HBJAY91	38	828026	1 - 276	15 - 290	
HBJBM14	39	781398	1 - 306	15 - 320	
HBJBR94	40	527903	1 - 331	15 - 345	
HBJBU55	41	527112	1 - 349	15 - 363	
HBJCD43	42	714390	1 - 187	15 - 201	
HBJCD88	43	697628	1 - 446	15 - 460	
HBJCJ68	44	823468	1 - 216	15 - 230	
HBJCO81	45	527711	1 - 290	15 - 304	
HBJCR51	46	847946	1 - 327	15 - 341	AA766781, and AA352756.
HBJCR90	47	527702	1 - 318	15 - 332	
HBJDL73	48	531104	1 - 218	15 - 232	AL117593, and AC007401.
HBJDN14	49	856216	1 - 401	15 - 415	AA249870, and AF205935.
HBJDO70	50	752830	1 - 523	15 - 537	
HBJDP32	51	573846	1 - 263	15 - 277	
HBJDP41	52	494836	1 - 374	15 - 388	
HBJDQ75	53	847935	1 - 516	15 - 530	
HBJDT05	54	932302	1 - 86	15 - 100	
HBJDT47	55	573728	1 - 214	15 - 228	
HBJDW23	56	919383	1 - 447	15 - 461	AL078584.
HBJDW36	57	573847	1 - 498	15 - 512	

HBJDX18	58	795732	1 - 544	15 - 558	T94994, and AC007546.
HBJDX51	59	716395	1 - 391	15 - 405	
HBJEA22	60	674872	1 - 312	15 - 326	
HBJEA25	61	589249	1 - 498	15 - 512	AA912740, AA48877I; T99916, AA370641, AA376428, AA488991, AA091598, D81695, AA305205, AA053093, AI082436, AA779219, AI041880, AI652229, AI216294, AL037847, AA319426, AA224141, AW392797, AI240672, AA160646, AW403677, AL037869, AI240700, AA314410, U91327, AF026293, and AF026166.
HBJEA44	62	973376	1 - 447	15 - 461	
HBJEA65	63	934994	1 - 543	15 - 557	T86098, and AL031589.
HBJEA90	64	895961	1 - 739	15 - 753	AA888592, AA489084, D80258, D80014, T11417, D59503, D59627, D81111, D58101, D80064, C14227, D58246, C06015, C14407, AI557751, AI535686, AI557774, AA514184, T03048, D51079, D80227, AW377671, C14298, D80269, D59695, D80168, D59467, AI535959, D50979, F13647, C14014, D80133, AA809122, D51213, D80188, D80522, D80043, D80378, D45273, D59502, D52291, D80195, AA305578, C03092, C15076, D80164, D59275, D80038, C14389, C14331, D80247, D80157, D81026, D51799, D80439, D51103, H67854, D80251, D58283, D80949, AA514188, D59859, D59610, D80022, D80166, D51423, D59619, D80210, D80391, D80240, D80253, D80045, C14344, D59787, D50995, AA305409, D59551, D81030, D80212, D80268, D80366, AW367950, D80196, D51022, H67866, D80219, AW178893, D57483, D80193, D59927, D80248, D59889, D51759, D80302, AW360834, D51060, D59317, D80241, D80024, AA514186, D59474, D45260, D60214, C14973, AI525237, AW177440, D51221, T03116, D59653, C14429, AW378539, AI525917, AW360817, C75259, AI525920, D60010, C14077, AW177505, AW375405, D59373, C14957, AI525227, AI525242, AW360811, C14046, C16955, C05695, AW178907, AI525923, AW178908, D80228, AI525235, T02868, AW366296, AW178906, AW360844, Z33452, AA285331, T03269, AI525912, AW179328; T48593, Z21582, AW375406, AW378534, AI525925, AI525215, AW179332, AW377672, AW360841, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378533, AW378532, AW352120, C05763, AW352117, T02974, AW377676, AW178914, C04682, AW378542, AW360855, AW178774, AW176467, N66429, D51053, AW179020, AW352171, AW178980, AW352170, D51250, AW177733, AW378525, AW179024, AW352163, AI525222, AW179018, C13958, D31458, AW178781, AI535961, AI525928, AW378543, AW177728, AW178986, AW177456, AW178911, AW378540, Z30160, AW178775, AW178909, AW179004, AW179329, AW179009, AW178754, AW352158, AI525228, H67858, AA305720, AW177508, AW177734, AW177497, AW179012, AJ910186, AW177722, AI525216, AI525238, AI535665, AI525903, AB002449, AR016808, A82595, A84916, AB028859, AR060385, AJ132110, AR008278, AF058696, A62300, A62298, AR018138, I14842, AR054175, I50126, I50132, I50128, I50133, AR008277, AR008281, X64588, X68127, A70867, AR062872, I82448, I79511, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, A26615, AR052274, A43192, Y12724, A63261, A43190,

HBJIED66	65	787251	1-161	15-175	AR038669, A25909, A64136, A68321, AR066488, AR008443, Y09669, AR066487, AR67220, D89785, A78862, D34614, A30438, AF123263, AR016691, AR016690, U46128, D88547, AR032065, AJ000347, D50010, AR008408, and AR060133.
HBJIEE29	66	888625	1-511	15-525	AA360671, and AL035652.
HBJIEE30	67	531103	1-413	15-427	AA806058.
HBJIEH70	68	971161	1-65	15-79	
HBJIEI42	69	669495	1-410	15-424	
HBJIEJ21	70	671201	1-291	15-305	
HBJIEJ29	71	693490	1-411	15-425	AC002126.
HBJIEI83	72	847920	1-414	15-428	AA760836, and AW085046.
HBJIEO29	73	693491	1-323	15-337	
HBJIEP15	74	847843	1-363	15-377	AC005580.
HBJIEP73	75	764573	1-320	15-334	
HBJIER19	76	953804	1-249	15-263	
HBJIES44	77	715846	1-608	15-622	W72060, W76253, AW291566, AI360806, AI871850, and AF086367.
HBJIET76	78	527553	1-648	15-662	AA625290, and AI394096.
HBJIET94	79	794343	1-258	15-272	AL133485.
HBJIEW15	80	507534	1-650	15-664	
HBJIEZ09	81	573781	1-276	15-290	
HBJIEZ16	82	421567	1-350	15-364	
HBJIEZ39	83	690479	1-320	15-334	T11506, AA490380, AA280331, AA233664, AA233243, AA232989, N49790, AI886810, AI660641, AI707610, AA243850, AA001344, AI814340, AI718247, AA897648, AA714834, AI499266, AI190321, AI832024, AI718088, AI014672, AI091271, AW169874, AI078790, N52465, AI245448, AA811481, AI057060, AA744777, AA642417, N49687, AA233550, and AI222478.
HBJFC51	84	725818	1-484	15-498	AA303049, AA482928, F30650, AI915081, AA349606, AA832175, AW104788, AI962030, AA237098, H29914, AL119555, AA599423, AA878431, AI452836, AA613624, AW117860, M62259, AI659023, AA719523, AA632479, AA643770, AA632556, AI144081, AW302711, AW301906, AW302753, AA127426, AA493503, AA173342, AA664604, H69515, AI053560, N90460, AA837000, AA481887, AA804187, AA720732, H86106, AA394066, AI865807, AI701959, AA467988, AA586656, AA468051, AA992877, AA911515, AA515728, AW068316, AW188742, AI369580, AI354847, AA323085, C16659, AA995827, F24728, R98218, AA302817, AI653776, AA492313, AC003007, AC004383, AL133163, AC007371, AL121754, AC005011, AF001549, Z98304, AC005632, AC006312, AC005696, AC005488, AC005412, AC006088, AL049778, AL049636, AC006515, AL021937, AC005544, AC005682, AC004887,

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HBJFJ53	85	573806	1-412	15-426	R94150, and T86024.
HBJFK55	86	625315	1-359	15-373	
HBJFL49	87	573970	1-417	15-431	
HBJFP58	88	738298	1-92	15-106	
HBJFV07	89	953795	1-122	15-136	
HBJFV59	90	573747	1-469	15-483	AI762503, AI076416, AI243035, AI077308, AA700764, AA838319, AA868956, and AA187478.
HBJFW10	91	878778	1-405	15-419	AL133241, and U80460.
HBJFW19	92	573765	1-339	15-353	
HBJFW20	93	573755	1-315	15-329	AC004692, and AL031684.
HBJFW50	94	571351	1-276	15-290	

HBJFW55	95	526682	1 - 259	15 - 273	AA283995, AI478915, AA283951, AI817564, AA283760, AA287165, AA286859, AA789104, and AC007068.
HBJFW68	96	573766	1 - 172	15 - 186	
HBJFW78	97	571347	1 - 380	15 - 394	
HBJFX57	98	573760	1 - 305	15 - 319	AL078584.
HBJFX81	99	529843	1 - 227	15 - 241	
HBJFY40	100	574095	1 - 450	15 - 464	
HBJFZ21	101	671191	1 - 235	15 - 249	
HBJFZ40	102	526679	1 - 437	15 - 451	
HBJFZ56	103	507530	1 - 329	15 - 343	
HBJFZ82	104	799685	1 - 325	15 - 339	AW005281, and AA558937.
HBJGR59	105	739095	1 - 551	15 - 565	
HBJGT72	106	957668	1 - 354	15 - 368	R50003, and R50021.
HBJGT92	107	919507	1 - 722	15 - 736	T84928.
HBJGU70	108	864063	1 - 474	15 - 488	
HBJGU78	109	920821	1 - 568	15 - 582	AI53853, AW079768, AI683616, AI536991, AI254730, AI356243, AI630887, AI829696, AI889334, AI344419, AW411027, AI391729, AI926804, AI282481, and AC004031.
HBJGV17	110	662725	1 - 475	15 - 489	
HBJGV22	111	613781	1 - 280	15 - 294	AA382068, D54550, H62431, H13929, AW176445, H80318, AW374298, AA418306, D54133, W01672, AL048935, AW374306, AW374317, W27179, AW176444, AW374310, W28706, AA234625, AR064426, AB004788, AF079221, AF067396, and AL132665.
HBJGV32	112	699075	1 - 377	15 - 391	
HBJHG04	113	836184	1 - 419	15 - 433	
HBJHG76	114	970826	1 - 476	15 - 490	AC008282.
HBJHI28	115	686278	1 - 314	15 - 328	M62004, and AL035410.
HBJHJ44	116	621723	1 - 359	15 - 373	AA207226, AL121444, AA019182, AA333455, W96231, AA331923, H08904, AA446987, and AW167577.
HBJHM50	117	724183	1 - 336	15 - 350	
HBJHM57	118	973257	1 - 419	15 - 433	
HBJHM76	119	715512	1 - 324	15 - 338	
HBJHN52	120	726570	1 - 334	15 - 348	
HBJHO11	121	964943	1 - 522	15 - 536	AW006288, AA977097, AI368637, AW197236, AI341105, AI650705, AI816278, AI590528, and R44511.
HBJHO60	122	975186	1 - 395	15 - 409	AL121820.
HBJHR56	123	686717	1 - 592	15 - 606	AA077952, AA482768, R96657, H79151, AW103981, AA169194, AA325699, M78177, AA626678, T69877, AA569387, AA332991, AA323749, AA326441, AA975645, AA357937,

HBJHT32	124	488736	1 - 321	15 - 335	AI434706, AA491762, AA568331, N29941, AW419262, H92005, AI000800, AA847509, AA973803, W95976, AA650623, AA862181, W95841, N87420, AA523837, AA693370, AA446657, AA630362, R38154, AL120483, AL138455, AI865400, AI184354, AL110444, AL039958, AI799642, N84245, R67504, Z98473, AW152064, AI051230, AA377730, AA780929, AI056964, AW338754, AA563818, AA587604, AI348611, N22424, AA704391, AI270343, N70103, N70020, AF041058, AC005745, AC007666, AF054569, AF042835, AF045999, AC007999, AC004938, AC004098, U66059, U07563, AC004821, AC002073, AC003101, AC004447, AL078475, AF009660, AC005166, AC006538, AC002286, AC005781, AC004854, AC005523, AC005940, AC002550, AP000961, AJ003147, AC000094, AC005838, AC000085, AC005023, AP000553, Z69366, AC007106, AC005815, AC016025, AF010238, AC007845, AC004972, Z49237, AP000404, AL021393, AC005409, AC003041, AL031680, Z93241, AL034402, Z84572, AC005632, U67825, U67826, AC004253, AC005414, AP000555, AC002347, Z82198, U67829, AL031774, Z60740, AC005031, AF044101, AP000350, AP000111, AP000043, AC001050, AC016026, AC006141, U80017, AC001228, AC010197, AC001531, AC007226, AC005015, AC010209, AC004895, AC006312, AL031283, AC005081, AC005291, AC004812, AF129107, AL096761, AL023579, AF051934, AL024507, AC008170, AJ229042, AC005531, AC007878, AC009516, AL035681, AC006128, AL035417, AF207550, AC003998, AL121653, AP000705, AC006581, AC008045, AL035249, AC002985, AC010077, AF091512, AC003086, AC002429, AL008582, and AC000385.
HBJHV93	125	881606	1 - 348	15 - 362	H68571, AA641767, and AA223840.
HBJHX08	126	958970	1 - 636	15 - 650	AL117342.
HBJHZ03	127	923733	1 - 491	15 - 505	
HBJHZ08	128	958969	1 - 373	15 - 387	AA773280.
HBJIA19	129	920881	1 - 678	15 - 692	
HBJIA92	130	494812	1 - 324	15 - 338	AA524953, AI418334, AI079663, and AI807855.
HBJID21	131	670642	1 - 415	15 - 429	AA864727.
HBJID81	132	697594	1 - 433	15 - 447	AC007564, and AL049766.
HBJIL11	133	966701	1 - 414	15 - 428	
HBJIL31	134	847865	1 - 527	15 - 541	
HBJIL53	135	971136	1 - 524	15 - 538	
HBJIL75	136	698405	1 - 399	15 - 413	
HBJIL88	137	721859	1 - 475	15 - 489	
HBJIO70	138	725097	1 - 424	15 - 438	
HBJIO79	139	774812	1 - 486	15 - 500	AI797163, AA761740, and AI278601.
HBJIR58	140	735365	1 - 330	15 - 344	AC002470, and AC007308.

HBJIY20	141	669519	1 - 148	15 - 162	AR050541.
HBJIY86	142	725084	1 - 652	15 - 666	
HBJIIB02	143	919379	1 - 435	15 - 449	AC007488.
HBJIIB04	144	878974	1 - 448	15 - 462	
HBJIIB11	145	965016	1 - 424	15 - 438	AC007319.
HBJIIB15	146	659920	1 - 512	15 - 526	N27511.
HBJIIB26	147	681342	1 - 359	15 - 373	AI886860, R17495, H96146, AA582791, AA069643, W02625, AA745628, T51436, AA593092, AI955111, AW169038, AI538214, N32496, AA243974, AA244061, AA629731, AA737235, AA745653, AI343169, W24944, H39038, AA856904, AA324108, T62233, AA279649, AA188676, AW410201, AI671077, W03120, AI570237, AA187624, AW404337, AA848002, AI418661, H81267, AA229422, F23294, T26476, AA523695, AA032001, AW341741, F30158, R32162, AA179304, AA452325, AA668715, AA215470, AC004644, AC006111, AC005618, Z95331, AC006146, AC002312, AL021918, AC005089, AC005086, AC005381, AL031295, AC004687, AC008101, U91322, AC016027, AC005874, AF134471, AC016830, AC005081, AF047825, AC006449, AC007425, AL049709, AL132777, AC005730, AC002352, AL031311, AC009946, Z83819, AC003108, AC004970, AC003982, Z98884, AC005969, AC006006, AL121658, AC005015, AC008079, AC004216, AC005193, AC007546, AC007731, AL139054, AC006241, AL121825, AC006312, AP000504, AL133485, AC005500, AC004794, AC002544, U95739, AC003098, AP000103, AP000032, AL133243, AL021155, AF129756, AC004253, AC006581, AC005921, AL035681, AL022165, AL109758, AC007227, AL021391, AF111169, AC006130, AC005666, AF196972, AC007537, AL096701, AL050332, AL022334, AL096678, AC006084, AP000216, Z98751, AC002301, U15422, AL034402, AC006251, AC003037, AL035684, AL034418, AC005006, AL121653, AF196779, AC006211, AL078593, AC005531, AC005237, U73634, AC007566, AC002126, AF064861, AC005562, Z83843, AC002565, AC006040, AC000379, AL021026, AC005018, AL035460, AC005317, AC007376, AC004883, AC005037, AC004821, AC005971, AF001550, AC002404, AL109865, AC005207, AL031584, AC000035, AC005332, AC004938, AB020864, AL133163, AP000694, AC003661, AF003626, AC005486, AP000516, AC004876, AL035086, AL135744, AC005815, AP000514, AC005663, Z98752, AL049780, AC007055, AC006441, AC005377, AC008372, AC009510, AL031778, AC005664, AF111168, AC005907, AL031281, AC005620, AL021707, AF126531, AC020663, AL022302, Y14768, U91321, AL109967, U91327, AC000025, AC006160, AC004386, AC007052, Z83826, AC005544, AC007011, AL031673, AC004150, U63630, AC003072, AC007686, AC005048, AC006132, AP000553, AF195658, AC004542, AC002316, AL022336, AF053356, AP000043, AP000111, AC004647, U91323, AC005082, AL133448, AL109952, Z97055, Z93017, AP000030, U07000, AC005768, AC019014, AL049832, AC007774, L78833, AC003119, Z84480, AC002365, AL121655, AC004223, AC005839, AC000353, U80017, AC005325, AL020997, AC005829, L78810, AC005632, AC005821, AL035413, Z69719, X69908, AC004933, AC002310, AC004983,

HBJJR40	148	710873	1-519	15-533	AI022326, AC008041, AC007283, AC007510, AC004895, AC005192, AC005378, AC005484, AC004804, AC006974, AC005527, AP000704, AC012398, AC005291, AC004813, AC005696, AC004000, Z69705, and AL031685.
HBJJB61	149	741615	1-369	15-383	AI205547.
HBJJB62	150	743096	1-422	15-436	
HBJJB74	151	765406	1-426	15-440	
HBJJB78	152	489438	1-390	15-404	AA076977, and AA076965.
HBJJD31	153	691780	1-452	15-466	R58828, AP000556, and AP000557.
HBJJD90	154	712982	1-435	15-449	AL035090.
HBJJH48	155	721473	1-357	15-371	
HBJJN13	156	915977	1-414	15-428	W93924.
HBJJQ29	157	666221	1-384	15-398	AA566068.
HBJJS46	158	718894	1-589	15-603	
HBJJU62	159	664298	1-415	15-429	AW449043, AA515418, E15648, E15652, and E15653.
HBJJU81	160	671611	1-375	15-389	AI343473, AW294828, AI521275, and AI797793.
HBJJX04	161	949592	1-917	15-931	
HBJJX11	162	847854	1-403	15-417	T55674, N32741, and AL110337.
HBJJX44	163	657242	1-561	15-575	
HBJKA75	164	682250	1-233	15-247	AA357979, AA357978, AA357137, AA078184, H63953, AI431513, AL036665, AA572974, AA626840, AA744095, AA774006, AI561043, AW029269, AI928890, H63220, AL037927, AA744423, AW105463, AA626595, T49133, AW151761, AA484191, D82321, AA513884, AW019964, F30158, AA317261, T51436, AA745628, AA515351, AA587826, AA573062, N34689, AA666066, AA053463, AA640252, AA434346, AA808847, AA669747, AI479148, AA478602, AA657374, AA564582, AI370170, AA599749, AA713705, AA653638, T06576, AA015948, AI635440, F32213, AA826102, AI860535, AW128881, AI590404, AW419389, AA741301, N30650, AW379218, AA610433, AA568314, H65308, AA699517, AI362694, AW151541, AA302978, AW085790, AW272815, AI079734, AI811647, R81176, AA653985, AW069412, U91320, AL121825, AC006065, AC006538, AL109827, Z98051, Z79997, AL078611, AC005081, AC005015, AC002457, AC003037, AC007057, AC005534, AC005037, Z99128, AC002316, AC005696, AC005192, AL035089, AC005772, AC005253, AL024498, AC005562, AL008715, AC005184, AF196779, AL122020, U96776, AL096677, AL109847, AC004815, AC002456, AC005231, Z83820, AC005284, AC004158, AL031594, AL049713, AF207550, AC003969, AC010200, AL109865, AC005214, AL031776, AC007129, AL050318, AF121781, AC004797, AC006312, Z99716, AF053356, AC002073, AC004531, X64467, AC005031, AP000008, AL049570, AP000704, AC005828, AL031433, AC008115, AF001905,

HBJKC52	165	974123	1 - 494	15 - 508	AC007363, AC004967, L77036, AL078463, AC004036, AL050348, AL022718, AC007193, AC004805, AL133353, AC009509, U77080, U73330, Z49235, AC004975, AF111170, AC009542, AL135744, Z83826, X81637, AL049590, AC005212, Z84482, AC004167, U80017, AC004589, AL024474, AL035694, AL031672, AC005921, AC007736, AL049869, AC005014, AC002433, AP000142, AL022326, AL049743, AC000379, Z99291, AP000081, AC005800, AC006000, AC003085, AC004843, AC002312, AC011331, AC006039, AC005726, Z97030, AL008635, AL020997, AC007371, AL035397, AL049872, AP000358, AC006126, AC005808, AL031284, AC002364, AL132985, AC007421, AL023513, Z68285, AC007191, AL096761, AL022320, AF124730, AC005532, AL035685, AC005294, AL022577, AL031719, AL031602, AC004973, AC004223, L78810, AC002994, AC005105, AC007073, AL109963, AC005625, AC004816, AC007546, AC006450, AF109907, AF001552, AL021154, AC004585, AC005071, AC006441, AC005157, AC007041, AC004491, AC004605, AC018725, AC006276, AC002984, AD001527, AC002128, AP000252, AL132799, AP000212, AP000134, AP000030, AC005006, AC005865, AL049631, AC007880, AC004659, Z98941, AC004686, AC004020, AC006213, AC005243, AC004887, AC006560, AC007225, AC004692, AL133216, AL049833, D87675, AP001054, AL024494, AC005781, AC004901, AC005972, AC004001, AP000694, AL109627, AC004835, AL049709, AL031985, AL034549, AL121652, AL049829, AC009399, AC002301, AC005232, AF057280, AL031680, AC009330, AL022336, Z84479, Z98742, AC005728, AL009031, AC004103, AC005220, AL117338, AL035681, AC005531, U96629, AC018633, AL022322, AC004168, and X06828. AI032590, AI568523, AA015921, AA020884, R08692, W01056, AI918922, AL049648, AC004805, U91322, AL079304, AL023581, AC005611, AC005243, AC007298, AL031056, AC000004, Z98884, AL049830, AP000246, AP000129, AP000207, AC005579, AC004525, and AC013256.
HBJKC56	166	735812	1 - 287	15 - 301	T96742, and H52012.
HBJKC86	167	974121	1 - 514	15 - 528	
HBJKD68	168	676330	1 - 238	15 - 252	
HBJKE63	169	744847	1 - 369	15 - 383	
HBJKF06	170	935033	1 - 589	15 - 603	AW241714, and AA927828.
HBJKF86	171	714449	1 - 494	15 - 508	
HBJKI26	172	489160	1 - 516	15 - 530	W87882.
HBJLB78	173	588085	1 - 317	15 - 331	
HBJLC51	174	784830	1 - 865	15 - 879	AW451973, AI766808, H88067, AA477171, AI376202, AA760752, AA781175, AW173607, AA992090, AI654796, AA946869, and H88069.
HBJLD57	175	683265	1 - 460	15 - 474	
HBJLD73	176	765356	1 - 408	15 - 422	AA465326, and AL031733.

HBJLE82	177	735748	1 - 474	15 - 488
HBJLF58	178	864013	1 - 226	15 - 240
HBJLL07	179	952791	1 - 273	15 - 287
HBJLL13	180	656721	1 - 291	15 - 305
HBJLL18	181	665874	1 - 329	15 - 343
HBJLL28	182	847840	1 - 340	15 - 354

AA483929, AI499588, N57739, AA664548, AA493136, AI524360, AI791913, AI821714, AA482273, AW023990, T06754, AA455670, AA630672, AA501649, AA961035, AA579179, AA837087, AA533782, AA487888, AW438542, AA503298, AI821785, AW023149, AI223700, AW149313, AA588001, AA618452, AI473475, AA662976, AW270343, AI933714, AI431240, AA858372, AW148507, R31790, AA857370, AW196064, AA339692, AA580808, AA864261, AA502991, AW238605, AA370455, AI580250, AA507282, AI648410, AI587224, AA483771, AW270709, AA595499, AA516233, AA828062, AA501852, AA719073, AI470646, AA846935, AA297666, AI859438, N23504, AI683446, AA436774, AL138096, AA002063, AA635368, AL042927, AI874308, AA654661, AA610688, AA436782, R23521, AA515905, AA502440, AI696595, AA071334, AA621381, AI921043, AA468505, AW341978, AI792133, AA230213, AA643770, AA651632, AL036037, AI354388, AI754544, AA707782, AA707705, AI341571, AA833896, AA282820, AA833875, AI733856, AA780944, AA503119, AI754567, AA483223, H25921, AI755214, R23441, AI691091, AA493975, AA368573, AI056177, AA522642, AL038971, AA513893, AA653375, AI.044586, AA687535, R73754, II29019, AA634837, AL047429, AA209423, AI587565, AI587583, AW302080, AI253007, AW081194, AW302087, AI434695, AA077019, AC004257, AC005696, AC016830, AC005060, AC006313, AC005071, AC003070, AF111168, AL049779, AL031447, AF047825, AC004659, AC006120, AC004148, AL133246, AC016027, AC007191, AC005002, AC005527, AP000556, AP000252, AC003029, AP000552, Z82180, AC003690, AC005226, AC004832, AC004883, AC005581, AC005387, AC004999, AL121653, AC004884, AC006312, AC005519, AC007842, AC005003, AL033518, AP000557, AL096701, U82828, AL049653, AP000703, AL121595, AC006251, AP000116, AP000049, AC007277, AC004638, AC005914, AL035422, AL050318, AC005880, AP000121, AP000053, AC005939, U47924, AL110502, Z97054, AC006112, AC005317, AL135744, AP000311, AC005663, AL049761, AC004953, AC004019, AC002116, AC005694, AC006487, AC005512, Z95115, AL021807, AL049745, AC007011, AC002301, AC005231, AC002375, AC006978, AP000066, AP000558, AC012384, AL109984, AC005197, Z75746, AF001549, AL031228, AC004814, AC006285, U82668, AP000513, AC005529, AL021940, AC005971, AC002310, AC006208, AP000244, AF111169, AC005899, AC005280, AC005049, AC006441, AC002531, AL049776, AC020663, AC007172, AL022165, AC004675, AC005031, AP000251, U91326, AC004149, AC003024, AF165926, AC006530, AJ003147, Z85999, AL023553, L77570, AL049589, AC009247, AC005305, AC005790, AL109798, AC007193, AC005730, Z84483, AL034451, AC002492, AC004983, Z84466, AC004706, AC007450, AP000355, AC005181,

HBJLL57	183	734522	1 - 322	15 - 336	AF088219, AC006581, AC002543, AP000065, AC007546, Z93942, AC005856, Z85996, AL080317, AP000689, AC005409, U89335, AL031673, AP000030, AJ133269, AC004812, L44140, AC000159, Z98036, AB023052, AF196969, AJ010770, AC002470, Z83844, AC004686, Z82214, AC000134, AC003982, AL078477, AC009516, AL035420, AP000692, AC016831, AC005399, AC009399, L78810, AC005531, AC007358, AC005089, AC005800, AC004655, AL049699, AL033543, AC006137, AC002041, AC000025, AL049757, AC004383, AC007387, U91323, AC007227, AP000512, AC007262, Z98884, AL133448, AL049759, AC007114, AL033522, AF043945, AC006211, AC007656, AC004955, AC004263, AF129756, AL022721, AC005598, AL031255, AC005765, AL049872, AL031983, Z85986, AL035684, AC007371, AC008040, AC003043, AC008132, AL022323, AC005520, AC005480, Z98051, AL049760, AL080243, AC004815, AL022316, AC005037, Z83846, AL023807, U80017, AC002472, AL133163, AC007919, AC006453, U91325, AC005535, AC005940, AC000353, AC005209, AL022396, AL008582, AP000503, AC005740, AC002996, AC007785, AC006026, AC005081, AC004448, AC007686, AC006040, AC016026, AC002395, AC004848, AC005234, AC002070, and AL139054.
HBJLL68	184	752810	1 - 332	15 - 346	
HBJLP14	185	657747	1 - 341	15 - 355	
HBJLR56	186	843811	1 - 882	15 - 896	AA075481, AA075480, AA075067, AI791780, AA127140, J04716, L39879, L01122, M73706, S89400, K01930, J02741, U75408, W38303, AA076112, and AA076111.
HBJLR82	187	779004	1 - 354	15 - 368	AW239537, AA232075, W78769, AW020962, AA448818, AA128583, and AJ010842.
HBJLV29	188	823400	1 - 374	15 - 388	AI797543, AA121152, AW189950, AA281969, AI082147, AI034184, AI871347, AA815173, AW418773, AA579808, AI468532, AI290248, AA458860, AA227296, AA573302, AA702437, AA278877, AA227295, AI458479, AI802340, T07432, Z39708, AI985569, T85327, AA659414, AI027853, AI766719, AA350191, AA904439, T16811, and AC004798.
HBJMA30	189	661665	1 - 646	15 - 660	T87986, and AA814273.
HBJMA51	190	725095	1 - 179	15 - 193	
HBJMC53	191	726491	1 - 454	15 - 468	
HBJMD71	192	760155	1 - 531	15 - 545	
HBJMD74	193	975088	1 - 467	15 - 481	AW206211, AF150250, C14388, AC002045, AC009509, AC006241, U52111, AC002554, AC004491, AF047825, AC005086, U95739, AF111168, AC007285, U80017, AL031602, AL121655, Z97054, AC004893, AC005874, AF134471, AC007993, Z85987, AC003104, AC000134, AC007919, AC004692, AC008115, AC005363, AC005822, AC005300, Z94801, AC002128, AC003029, AL034429, AC005088, AC005914, U96629, AC005534, and M18157.
HBJME92	194	792110	1 - 426	15 - 440	AA126910, AP000360, AC000053, AC002060, and AC005002.
HBJMF23	195	675692	1 - 379	15 - 393	

HBJMF30	196	691179	1 - 566	15 - 580	
HBJMF47	197	720050	1 - 374	15 - 388	
HBJMT76	198	720047	1 - 425	15 - 439	
HBJMK34	199	935952	1 - 443	15 - 457	AW182540, AA610084, AI936489, AA306791, AW340569, AA905749, and AB033050.
HBJMK94	200	794129	1 - 438	15 - 452	AW004683, H87822, H87851, and AW015156.
HBJML28	201	614911	1 - 465	15 - 479	AC004254.
HBJML69	202	864004	1 - 662	15 - 676	AL031657.
HBJMM72	203	760833	1 - 408	15 - 422	AI241023, AW401921, and AB023483.
HBJMN75	204	699060	1 - 448	15 - 462	AC002368.
HBJMQ86	205	576429	1 - 513	15 - 527	H55415, W22115, AL096701, and AB011114.
HBJMR15	206	964484	1 - 493	15 - 507	
HBJMR60	207	740142	1 - 601	15 - 615	AA601336, AA640305, AW341878, AI567676, H79323, AA593168, AW020612, AA167656, AW085626, AA729004, N27362, F35374, N49298, AA179364, W45416, AI520984, T89141, R99617, AI253347, AI918661, AI061158, AI281622, AA947352, AA228268, AA664963, W27084, AA761454, F01694, T57636, AA299490, AI744890, N63562, AI640905, AI919048, H81012, AI569452, AA828840, AI828721, AA496042, AW028376, AI343808, AA776663, AA428991, AI363336, AI149177, AL049177, AL049743, AF165926, Z83840, AL109984, AL031311, AC005412, AC004821, AC007686, AC007546, AC004832, AL035587, L78833, AC007216, AL020997, AL031589, U95742, AE000658, AC005377, U85195, AC005377, AC007421, AC008115, AC004797, AC005520, AL035420, AF196779, AF139813, Z98200, AL033392, AC003025, AL035086, AL080243, AL121655, AC006530, AC005355, AC002312, AJ246003, AC004228, AC004895, AC005180, AI096791, AC006312, AP000512, AC005519, AC006285, AC005081, AL049869, Z82190, AC005839, AC005015, AL049694, AC004816, AC006071, AC005726, AC002120, AL031293, AC005089, AC006121, AL021453, AC005527, AC005696, AC006139, AL135744, AL133163, AF217403, Z97630, AC005971, AL035422, U78027, AC004878, AC004975, Z82176, AF023268, AC000025, AL121603, AL008582, AL049757, AF001549, AC005399, AC005914, AC007387, AC005207, AC000048, AF207550, AC005821, AC002094, AP000248, AC005876, AC002117, AC005231, AC005288, AL034429, AC006130, AF111167, AP000704, AL133448, AL096701, AC007386, AF111168, AC005529, AL031280, Z98884, Z73979, AF134726, AC004099, AC006581, AF051976, AC006160, AC006077, Z93020, AC004212, AL008734, AL031655, AC007993, AC005695, AP000555, AC004913, AC007308, AF109907, Z97056, AC005277, AL020095, AC003041, Y18000, AL117329, AC007263, AL034421, AP000503, AP000008, AC004967, AP000514, AC004834, AC002558, AL034420, U52112, AC005632, AL022333, AC005755, AL049780, AL031123, AC007055, AL133246, AC005911, AC005049, AC003109, AD000092, AC004897, AC007226, AC005183, AC005829, AL023807, AL122020, AL109952, AD000864, and AC005993.
HBJMT52	208	726480	1 - 240	15 - 254	

HBJMV72	209	952862	1 - 469	15 - 483	?
HBJMW20	210	669030	1 - 643	15 - 657	
HBJMX04	211	614930	1 - 338	15 - 352	AI810024, AW023610, and AA609969.
HBJMX21	212	933143	1 - 353	15 - 367	
HBJMX29	213	690404	1 - 347	15 - 361	AW16629, AA601349, AA052895, N66744, AJ732437, AI114704, T86740, AA491447, T98482, AA918759, AA663115, AA663086, AA291630, H72049, AW084938, R11040, AI926873, AW440498, T87973, AA846969, H93001, N63743, AA603883, AW028174, AA838162, AA507035, AA706845, AA837385, AA291700, AA297496, H73336, AA352365, AC004961, AL133382, AL034411, Z73420, AC002352, AC004887, AC003108, AC004645, U91326, AC006111, AC005509, AC004081, AL008712, AC016831, AI031276, AL033392, AC005531, AC007298, AL080286, AC004950, AL031985, AC004987, AC004448, AP000365, AL021939, AP000514, AF015262, AJ229043, AC005037, AL020993, AF196969, AP000547, U08988, AP000295, AP000044, AP000112, AP000152, AC004223, AC007663, AC006549, AF001549, Z68756, Z70289, AC007774, AC005516, AC004466, AC002312, AC002390, Z92547, AC005746, AC003071, AC002544, AJ010770, AL031584, AL121595, AB014080, AF017104, AB026898, AL050312, AL034408, AF020662, AC000078, AL109798, Z95331, AC002400, AC006441, AL049430, AC006059, AF147316, AC005081, AC004638, AC004876, AC004106, AL022578, AC002365, Z85987, AF196779, AC007364, AC004167, AL034582, AC016027, M98447, U82671, AL009179, and AP000553.
HBJMX34	214	703843	1 - 382	15 - 396	
HBJNC11	215	966608	1 - 516	15 - 530	
HBJNC89	216	786707	1 - 341	15 - 355	
HBJND59	217	576434	1 - 767	15 - 781	AA085391, AI053911, AA548890, AW403888, AL037632, AA081462, AI470646, AA834809, AA588001, AA833896, AA833875, AI580250, AA912287, AA483771, AA380354, H59372, AW274349, AW303196, AA580808, AW196064, H61630, AW301350, AL138096, AA515457, AI791913, AI792133, N54894, AI821714, AA679154, AI282511, AA483218, F25733, AI270096, AL119713, AL120687, AI283312, AA683258, AA507822, AA457642, AA491862, AA838190, AA491650, AW270270, H70994, AI821785, AW440545, H69109, AC007226, AF003528, AL031905, AC005815, AL008715, AC005036, AC008055, Z98941, AL096772, AC023172, AC005144, AC006013, AC007435, AP000228, AF165147, AP000140, AC007488, AP000088, AC005722, AC002480, AL049712, AC002523, AP000201, AP000093, AC005881, AC007447, Z82198, AP000097, AP000237, AF107258, AC007437, Z74739, Z86064, AJ229042, AC005261, AF001552, AF146191, Z83846, AC004216, AC008372, AL009050, AC007671, AL078459, AL031664, AC007066, AC007298, AL023807, AC004216, AC008372, AL024495, AC005284, AC004741, AL121595, AC002499, AP000961, AL035089, AL079342, AL024495, AC005146, U91323, U82668, AC002536, AP000966, AL021978, AC005874, AF134471, AC004948, AL080239, AC002091, AC007681, AL049744, AC010200, AC007262, AL033379, AC004948, AL080239, AC002091, AC007681, AL049744, AC010200,

HBMBC18	218	578887	1 - 298	15 - 312	AC006965, AL033527, AL008629, AC007363, Z98742, AC006450, AC007182, AL020995, AC003009, AC006210, AF045450, Z84483, AC008122, AC006080, AC004638, AC002492, AL080285, AL022336, AL049779, AF165175, AC007395, AL020989, AC002543, AC004805, AL021939, AC006322, AC005682, AC008072, AC005006, AC009721, AC003086, AC006379, AC005243, AL021391, AC004061, Z97205, AC008124, AC005035, AF064860, AL031666, AP000108, AC007270, AL022144, AP000086, AL031681, AC005082, AC002429, AC009069, AL033525, AB020869, AC004905, AP000958, AP000161, AL031735, AC002449, AL133241, AP000150, AF053356, AL049540, AL049875, AC010169, AC004108, AF015262, U82696, AL031012, AL035416, AL117329, AL096792, AL022323, AP000009, AC005871, AJ229043, AC002463, AL121877, AC005482, and AC006390.
HBMBC25	219	573103	1 - 414	15 - 428	AB014526.
HBMBC35	220	921417	1 - 348	15 - 362	AC004702.
HBMBC91	221	506594	1 - 560	15 - 574	H69543, H80124, W88965, W88544, R02124, and AP000497.
HBMBE72	222	760737	1 - 632	15 - 646	AW205507, and AI300640.
HBMBE84	223	578869	1 - 325	15 - 339	AC005905.
HBMBH36	224	971172	1 - 341	15 - 355	
HBMBH55	225	732250	1 - 289	15 - 303	
HBMBH91	226	753141	1 - 199	15 - 213	
HBMBI06	227	935819	1 - 407	15 - 421	
HBMBN32	228	775670	1 - 362	15 - 376	AA127005, H06566, AA125853, R56714, and AF191018.
HBMBO20	229	496513	1 - 453	15 - 467	
HBMBQ33	230	702457	1 - 461	15 - 475	R11468, AL009031, and AC002326.
HBMBQ83	231	689705	1 - 533	15 - 547	AA604872, AA026240, AA704592, AA258677, AC004087, and AC002385.
HBMBS11	232	967111	1 - 355	15 - 369	
HBMBT85	233	863938	1 - 349	15 - 363	AC018633, and AC005271.
HBMBU24	234	677240	1 - 179	15 - 193	AA747565, AW207289, AI249497, AW366372, AI336633, AI434255, AW149876, AI336634, AI524654, AI472536, AI049713, T99953, R28164, AI538938, AI289542, AI344935, AI267185, F28295, AI114703, AI811603, AA749184, AL048323, AW059828, F35428, AL048340, AI473208, AI479292, AI360195, AW022102, AI890507, AI285514, AA493923, AI383804, AI801325, AW020419, AI690813, AI687568, AA595932, H89138, AW188698, AI699020, AI687587, AI289791, AI521005, AI784233, AI918554, AI345005, AW020095, AW169643, AI345745, AI225000, AI440263, AI698427, AA939199, AI468959, AI310575, AI161279, AI799351, AI872423, AI334893, AA481494, AI340533, AA761917, AI669640, AL120831, AI284509, AL047398, AI689404, AW169628, AL040207, AI345736, AI273919, AA587590, AA502794, AI345415, AI246070, AI436429, AI345396, AI366959, AI828574, AI499104,

AI345397, AI627714, AA207067, AI955945, R65859, AI560227, AI335235, AW021373, AI699056, AI285419, AI273856, N99092, AL047422, AI434731, AA127565, AI336631, AW072719, AA642348, AW190242, AI539690, AW079768, AW268302, AW235501, AA768478, AI583982, AI337186, AW302954, AW104141, AI348854, AI002285, AI050666, AI107494, AW274355, AI250646, AW088899, AA176980, AI336582, AW167229, AI251221, AI349957, AW131952, AA653459, AI285439, AW161579, AI885949, AI582871, AI581033, AI224463, AL048644, AW274192, AI500706, N27632, AI254727, AI500662, AI471429, AW301505, W48671, AI340511, AI624304, AA857847, AI679959, AI633061, AW022494, AI348870, AI571699, AI699154, AW020288, AI702527, AA420722, AI349814, AI349186, AI336575, AW020710, AW023859, AI609375, AI349772, AL038463, AW020397, AI334895, N63128, AA579232, AA635382, AW082835, AI815232, AI335476, AI343030, N33175, AI471909, AI491904, AI284517, AW268964, AI379711, AI218156, AW243232, AI804505, AI866581, AW075382, AI859644, AA629977, R32821, AW020826, AA062896, AI927233, AI348895, AI656270, AW068845, AI698391, AI336495, AI349276, AI538564, AI784214, AI612885, AI345639, AI553645, AW191003, AW089122, AI915291, AI371251, AW152182, AI538850, AI859991, AI537273, AW148303, AI582932, AA514684, AW020373, AI590043, W38903, AI586931, AI524179, W46378, AI446775, AI690946, AW088560, AW301344, AI521560, AI889189, AW264727, AL036146, AW161202, AW172723, AI309306, AI473536, AI866461, AL045626, AW151979, AI866469, AI865116, AI553669, AI252077, AI348897, AI250627, AW274318, AI500714, C16221, AI950892, AI633125, AL048499, N22276, AL047344, AL137562, AL137712, AR068466, E12579, AL117440, S77771, AR038854, AL133093, AF043642, A08913, L04504, U89295, A08912, X06146, E12580, AL133606, A08910, E01573, E02319, A18777, A08909, AL049324, X99257, X57084, U80742, S76508, AL137276, A08908, S36676, AL122123, AL080074, A08907, L40363, AF090886, S69407, AL049452, AL110196, U90884, AL133081, AL137273, X93495, AL117432, AL110280, AC006197, AR050959, I89931, I33391, AL110197, AL049460, AB030279, I89934, X00861, I49625, AF026124, AF058921, AF150103, AR064250, AB019565, AJ131955, AL133636, AL050280, AB025103, AF079763, E00984, I04527, X62773, AF008439, I89947, A65965, L13297, Y11587, A65943, AL050155, E03671, AF200416, AF017790, I30339, I30334, I48978, AL096720, AF000896, AL133565, AF114168, AL008706, E08516, E02152, X63410, S75997, AL137429, AF100781, A90848, X62580, U67328, AR029490, I46765, AC006313, AB007812, U96683, X86693, AL080147, AF016271, E01614, E13364, U91329, AL137292, AJ012755, U72620, I89944, AF026816, AF169154, X82434, X79812, A65341, I42402, AF031147, M86826, AF106697, AL080158, E01314, AL122100, I66342, S83440, U62966, AL133113, AL133010, AF137367, AL137555, U75370, AF047443, AF032666, X72889, AL137550, AF001552, L24896, AF115410, U75932, AF091084, AL133104, AF175903, AL117644, AR054987, Y11254, AF141289, AL137538, AL133557, AL133016, AF036268, U57352, AL080132, AL080137, Y10080, AL137548,

HBMBU38	235	531494	1-311	15-325	AF079765, X53587, AC002471, AC005374, X57961, I41145, AI136884, AF207750, AF100931, AF118094, AL049283, A65336, AF132676, AF061836, AR012379, AL117460, AL117585, U68233, I92592, X92070, M96857, U42031, E08631, I09499, AF125948, AL137256, AL133077, E02221, AF182215, AL137479, I68732, U88966, E15582, AF161699, AR034830, I96214, I18355, AF200464, A94751, AL137574, AF090903, I34392, I26207, AF085809, Z48796, AB029066, AF124435, X83508, D83032, X59414, AC006039, AL137537, AL137530, AF111112, A08916, AL133054, AF022813, AF118064, AL137478, AL137530, AF111851, AL122111, X63162, X89102, X52128, E15324, AF090900, AF061795, AF151685, AF158248, S68736, AL137658, AL133568, AF185576, AL122003, AF061573, AR068753, A90832, AF201468, AF113013, A57389, AF017437, L19437, A86558, and AL137286.
HBMBX69	236	698362	1-319	15-333	AL031259.
HBMBRY27	237	574803	1-407	15-421	AC004883.
HBMBZ71	238	880580	1-1275	15-1289	AI075978, AW298093, AI201251, AW293546, AI917770, AA906330, W63599, AW086186, AA890701, and AA551674.
HBMCA44	239	716647	1-504	15-518	AA693506, AA411644, W31362, AA422026, W24882, AA016012, H16662, and AW351706.
HBMCA58	240	736084	1-287	15-301	AI380599.
HBMCA94	241	793174	1-444	15-458	AL078644.
HBMCD26	242	847826	1-275	15-289	
HBMCD49	243	723005	1-344	15-358	Z83853, AC006318, AC004137, and AC006262.
HBMCE22	244	674659	1-439	15-453	W31342, and AI699098.
HBMCH75	245	932037	1-562	15-576	
HBMCH88	246	711318	1-387	15-401	
HBMCK57	247	495736	1-493	15-507	AI859108, AI565562, AI366188, AA703350, AA983821, H59553, T98748, W26825, and AA630729.
HBMCQ14	248	658484	1-253	15-267	AF083106.
HBMCS34	249	703438	1-675	15-689	R25159, AW294139, and AI474654.
HBMCS77	250	465070	1-486	15-500	R00604.
HBMCT67	251	751643	1-312	15-326	AL031123.
HBMCU92	252	529580	1-514	15-528	
HBMCZ11	253	967099	1-303	15-317	
HBMCZ27	254	683436	1-331	15-345	U73636.
HBMCZ32	255	855694	1-369	15-383	AA610530, AL120543, AW192373, AA564682, AA470958, AC007204, AC005899, AL031291, AC002040, AL049830, AC005971, AC004783, AC006213, Z97832, AL049776, AF047825, AC002492, AF196971, AL035588, AC002470, AC007401, and AL078634.
HBMDA51	256	691116	1-434	15-448	

HBMDC03	257	1 - 405	15 - 419	
HBMDC16	258	1 - 398	15 - 412	
HBMDC88	259	1 - 135	15 - 149	
HBMDD36	260	1 - 279	15 - 293	
HBMDD59	261	1 - 333	15 - 347	AA027081, AI525653, AI525669, AI557238, AI557808, AI557602, AI547225, AI557426, AI541321, AW020592, AW022727, AW021178, AI541056, AW022874, AI541048, AW020406, AW019988, AW021777, AW022826, AW022299, AI557222, AI525802, AW020425, AW022308, AW020328, AI886206, AW020634, AW023351, AW021693, AI557258, AW020931, AW022981, AW021182, AW020480, AW021466, AW022593, AW020629, AW023884, AI525857, AW021561, AW021059, AI525656, AW023617, AW020295, and AC007655.
				AA677098, and AC004814.
HBMDE19	262	1 - 339	15 - 353	
HBMDF55	263	1 - 393	15 - 407	
HBMDH79	264	1 - 788	15 - 802	F34605, AL046519, AI340151, N69399, AI246061, AA229159, F00350, AI302350, H64549, F24745, R68706, H16875, AW071109, AI204309, AA523719, AA778580, AA456149, M85827, AI280566, M78026, Z30049, W45215, AA648957, H68343, AC012384, AC002480, AC005531, AL008710, AL035079, AL031729, AC004025, AC004983, AL022320, U80017, AC007488, AC004477, AL121769, AL022397, AP000300, AC002994, AL049832, AC002350, AC007172, AC007066, AC006449, AP000113, AP000045, AC007014, AC004466, AC003681, AC006557, AC004791, AL031054, AC007880, AF109907, Z98884, AC005529, AC004797, AC002310, Z99943, AE000658, AC006101, AP000346, AL049712, AC003046, U15177, AC004874, AC005516, AL022316, AC002990, Z83822, AP000354, AC007040, AC005527, U91323, AC005191, Z82194, AL135745, AF001550, AC004656, AL031668, AC005829, Z95114, AL021707, AL121653, AC004448, AL121852, AL021578, AC004890, AC005184, AC005486, AC006141, AL008718, AC007228, AC004584, AC000003, AC003108, AC007919, AF196971, AP000501, AL096711, AC004816, U96629, AC006120, AF207550, AL031655, AC004263, AC005846, AC002367, AC006576, AL034429, AJ003147, AC007955, AC002369, AL049709, Z86090, AL034420, AC018633, AL121748, AC000159, AL035420, AC006509, AC004953, AC002528, AC004878, AC005015, AC005280, U89337, AC005049, AC002303, AC006137, AC005099, AL008635, AC007546, AC005696, AC004858, U89335, AL035681, AC003029, AF024533, AL031255, AC005664, AC005207, AL109984, AL035587, AC005865, AL022326, AC005844, AC007182, AC005753, AC000097, AL008725, AL031848, AC006547, AC002470, U91325, AC000379, AB015355, AC005164, U91318, AL035652, AC005332, AC002091, AL049869, AC006468, AC005007, U95742, AC002565, AC006538, AC007707, AC005158, AC005800, AL031733, AC003075, Z85986, AC005037, AL022722, AC005736, AL031591, AC004223, Z84487, AB003151, AP000688, AL034553, AC002312, Z82190, Y10196, AC004098, AC004967, AC003982, AF069291, AL034553, AC003950, AL035249, Z95704, AC005197, AC009542, AC005484, and AR036572.

HBMDJ11	265	967046	1 - 325	15 - 339	
HBMDJ36	266	721673	1 - 188	15 - 202	
HBMDK12	267	970684	1 - 348	15 - 362	AW303196, AW274349, AW301350, AI754955, AA649722, AA634145, AA768097, AA937687, AA810370, AA719080, AA573020, AA644207, AA709005, AA504638, AA558060, AA487858, AA568778, AA649705, AA579736, AA554319, AA858197, AA461233, AA513972, AA501578, AA814522, N29933, AA132914, AA483731, AA480790, AA824655, AA824654, AA582911, AA077817, AA437161, AI830390, AA523815, AA350859, T15897, AA650450, AA602528, AA670468, AA861959, R97934, AA845813, AI434706, AI962050, AI284640, R38154, AA610493, AW440976, H50727, AI251002, AW236342, T07451, AA167659, AA525824, AA577906, T71030, AA229785, AA522942, AA603156, R97326, T06828, AA678499, AA743978, AA504871, AA578481, AA492140, AA623002, AA970213, AI625244, M77899, T05101, R89294, AA199616, AA490183, AW193265, AI282832, F18974, AA259245, AW276435, AI270117, AA826303, AI688846, AA605032, AA649642, AI824562, AA745104, T41124, AA113861, AA720548, AA729721, AA634146, AA525876, AA326589, AA569167, AI205126, AI278997, AA552885, H64778, AA346575, AA610611, T08438, AA325817, AI339850, AA075995, AW029038, AA558015, AA947360, AA804379, AI929531, AA664015, AA837677, AA632837, AA515435, AA550758, AW088058, AI537955, AA177061, AA020850, N66428, AA719805, AI434695, T06556, F19012, F36273, AA401022, AI216799, AA886584, AW438643, AA578391, AI281697, N33611, AA252263, AA837084, AA491762, AI291124, AA378580, AA586562, AI471481, AA780797, AA847128, AA771811, AA771811, AA713815, AA745410, AW162049, AA515051, AA665021, AW419118, AW166815, AA890235, AA713815, AW276827, AI014358, AA503473, AA610783, AW021747, AA449088, AA323749, AI291268, AW276827, AA605274, H10994, AL046409, AW440836, AA743960, AA368936, AI537030, AA599920, AA813902, W16581, AI904894, AA678443, H64563, AI564185, AI341548, AI679782, AA598586, AW193432, AA779040, AA346454, AA775940, AL044940, AA601499, AA485291, AI281881, AI469003, AI287651, AA385100, AA557686, AI801591, AI917271, AA557879, AW302450, AF150152, AA325699, AA441788, T40077, AI918421, AI446464, AI286264, T67750, AA678772, AA827295, N63352, AI431303, AI049722, AI133636, T41155, AA225155, AA501722, AI002834, AA558697, AA747480, AI053672, AI674873, AI567674, N25296, W47183, F03097, AI350211, AI890923, AA468131, AA352803, R97969, AA644551, AA551503, AW338500, AL046457, AA513293, AI375710, AA458736, AI287528, AA552945, AA569387, AP000208, AP000247, AP001046, AL096701, AP000302, AP000114, AA587604, AP000130, Z83822, U14694, Y12508, U14719, AC004606, AF060568, M27161, AP000046, U13056, U07000, U89335, AL049869, AC006210, U14718, AL031447, AL035420, AC005994, Z82208, AF003528, AC006241, AC002984, U14687, Z82975, AL049843, AC004024, AP003307, M87916, L43392, AL049776, AC007656, U47924, AP000047, U67274, AC005251, AC005971, AC005971.

					Accession Numbers
HBMDK13	268	657221	1 - 610	15 - 624	AC004955, AP000431, AC002542, AC007671, AP000354, AC004916, AC004417, AC004856, AP000115, AC000353, AL049745, D83989, AC020663, U20770, I51997, AL022328, AL078476, X75335, M89651, S75337, U14695, U14705, Z93241, U14717, AF147277, S70694, S70692, AC012599, U14685, U14686, U14689, U14691, U14699, U14702, U14707, U14710, AC009509, AC006111, AP001051, AC006128, AI006996, X58156, AC005200, AC000041, AC003962, AC002432, AL035407, AL096712, AL035425, AC005488, AC004953, AC004019, AI034429, AC008545, AL020996, AC006305, Z82211, AL049569, AC010205, AC007695, AL022238, AL096710, AC004768, AC004921, AL031597, AC005164, U73633, AP000555, AC007225, AC005778, AC004859, AC006315, AC005548, AL021453, AC004206, AP000297, AL049830, AL109967, AC006466, AL035695, AC008101, AC008125, AC006441, AL033379, AC004542, Z84814, AC007387, U57009, U18399, U14714, X54180, U18391, U18392, U57006, U18394, X55925, U18393, U57005, AC004385, X54179, X55928, AL035417, AL117354, D42052, U89336, AC005915, AL008629, AP000311, U91319, U18390, X55932, AF126403, U14703, AI034423, S70697, AC004671, AC002059, AL023494, S70689, AC002077, U14688, U14692, AC005252, AP000548, AC006013, AC005043, AL023882, AL022318, U02048, U02054, U02063, AC002072, AC007666, AC006511, AC006265, AF067844, AC004990, AC005242, AC004998, AL022721, U32576, AC004553, AC006126, AP000306, AF094481, AC005331, AC005175, AF129077, U67829, AC013248, AL008709, AC004227, AL031391, Z98046, AF130247, AF121781, Z98743, AC002564, AL031286, AC005102, AC004987, AC006476, Z86061, AC002379, AC004222, AL109622, AJ006998, AL034402, AF165138, AC004675, AC004806, U80017, Z95115, AC004931, AF165147, AC005154, AC010722, AL031584, AC006031, AC006064, AC009069, AC007538, AF088219, AC005815, AL022726, AC006057, AC006043, AC007207, AC007073, AF001549, AF027390, U66059, AC004526, Y10196, AP000961, AL031054, AC004458, AF077058, AL035450, AC002310, AF029061, AJ246003, AC006251, AC002996, AL050305, AL022157, and AL023804.
					T85668.
HBMDS17	269	796050	1 - 521	15 - 535	AI142427, AF073792, U51134, and I81226.
HBMDS64	270	746572	1 - 392	15 - 406	AI205126, T55510, AI003172, T53606, F19258, AW104748, AI474713, U51696, W60516, F29989, AA557325, AI608626, H71429, AW080134, AI365988, AA340960, AI962050, AA814017, AI251002, AW339687, AA515051, AI929531, AW166815, AI635272, AA169801, AA229785, AW162049, AW440836, AI339850, AI890923, AI567674, AI625244, AI049722, AW029038, AI904894, AI917271, AI133636, AL119391, AA713815, AI469003, AA826303, AA904218, AL120674, AW338500, AA115968, AA584751, AW131034, T29180, AL038785, AA079706, T12272, AI922840, AL040913, AI368745, AA340003, AA551509, AA228329, AL041368, AL138265, AA653057, AA148489, AW023672, AA886584, T90706, R55847, AA644207, C06458, AA482711, AA483068, AA669251, R95171, AI679782, AI003743, AA501344, AA327782, AI433187, AA099892, AI802526, AA113186, AA365587, AC004491,

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HBMSB19	271	1 - 252	847800	15 - 266	
HBMSK92	272	1 - 114	531156	15 - 128	
HBMSO15	273	1 - 425	847795	15 - 439	H53903, and AP000692.
HBMSO39	274	1 - 206	531158	15 - 220	AC006504.
HBMTF79	275	1 - 119	544889	15 - 133	
HBMTG05	276	1 - 245	932497	15 - 259	AB017919.
HBMTM75	277	1 - 317	574515	15 - 331	
HBMTP84	278	1 - 253	703844	15 - 267	AI510796, AA351893, AI982994, AA847341, AA778580, AA455202, AI734193, AI791227, AI732911, AI884404, AI734158, AA581317, AA636077, AA843542, AI815425, AI002863, W45215, M77964, AI890283, AI207534, AI207209, AA729628, W02419, R79396, AI816073, AC006084, AC004820, AC002369, AC002558, AC005383, AC007014, AL009181, AL050308, AC003071, AC004659, Z98950, AL132987, AL109613, AC002350, AC005200, AL049699, AB023049, Z95116, AL021918, AL020997, AL109613, AC002492, AC004816, AL096701, Z85987, AL035089, Z82190, AC007501, AL049828, AC005775, AL031368, AJ246003, AL021394, AC005553, AC005535, AL022322, AL121658, AL049838, AC005529, AC006211, AC005102, AL031587, AL049830, AC005574, AC002115, AF124730, AL079342, AF111168, Z83843, AC007686, AC000025, AL008582, AC005527, AL022578, AC005630, AC001644, AC004386, Z97876, AL117344, AC005089, AC005037, AC002316, AL133275, U51561, AP000275, AP000037, AP000105, AL020996, AC004987, U91327, AL049643, AL049709, AC005099,

HBMTU03	279	924979	1 - 292	15 - 306
				AL021937, U73643, AC004073, AC006509, Z93023, AC000111, AF111169, AC007283, AC011311, AC004812, AF001552, AC005372, AP000501, AC002553, AF006501, AJ243213, AL122023, AC004686, Z73417, AL035086, AC005224, AC008014, AC007066, and AF011889. T41134, H61871, AI962094, H65010, AI915081, T83057, AI445774, N54397, H62550, AI370470, AA135761, H68343, AA385775, AA847064, D51809, AA161305, AI187148, AA371410, R70883, R70884, AA747757, F33037, AA722146, D51877, AA133332, AI571161, F17529, AI559304, AA584594, AA633039, AA298365, AA584493, R92563, AA297006, AW276683, AA664126, R19199, T48723, AA838091, AA602971, AA584183, AA935409, W39287, AI619994, AA714011, AW245860, AA719523, AI800426, AA445951, AI697242, AA653291, AW237905, AA236867, AA487209, N27874, H63660, AA583386, AI049955, F35684, AA587215, AC002091, AL024498, AC006512, AL031597, AC003982, AC006487, AI022165, AC004000, AL049856, AL135744, AC007565, AC003042, AC006023, AF217403, AC004752, AC002492, AC007193, Z98200, AC005003, AF196970, AL121603, AC006211, AL109798, AC005324, AC004821, AL022315, AL020997, AC005089, AC005914, AC006432, AL022302, Z93023, AC004854, AL133245, AL050332, AC008072, AC002470, AL034421, U29953, AC005736, AL096701, AL031681, U66536, AC007792, AC005670, AC004098, AF111168, AC005837, AC007774, AC002073, AF196779, U89337, AC005682, AL109952, AC005921, U91326, AC005225, AC005081, AC004383, AC005940, AC005531, AP000503, AL022336, AF053356, AC005391, AL031053, AC005844, AL009179, AC006241, Z98304, AL049776, AC005330, AC004967, S42653, AL034429, AF045555, Z85987, AC000120, AC005911, AC004531, AC003029, AC005015, AC005562, AF001549, AL009181, AL034420, AC005519, AC005318, AP000030, AP000212, AP000134, AC005800, AC004491, AL031311, AL035400, AL031447, AC004552, AC006071, AC005899, AF196972, AF207550, AC005696, AL049757, AP000704, AC004034, AC016027, AC006001, AF134726, AL022149, AL031432, AC004955, AC006057, AC005231, AC005747, AC016830, AC005484, AC002477, S79836, U73647, U11297, AC005520, AC004686, AL022311, U80017, AL078581, AC006480, L48038, AL031295, AC031295, AC002544, M63544, AF181896, AF130249, AF190465, AC004477, AL049761, AC004152, AL035671, AL136295, AC000062, AC005726, AC005786, AC003051, AC007308, AC005808, AC003041, AC006101, AC002116, AC006387, AC005829, AC005277, AC005091, AC005924, AP000116, AP000510, AC006285, AI139054, AC002312, Z97353, AC007327, AP000251, AC004812, AL133243, AL031670, Z97183, AP000512, AL049557, AC004583, AL078639, Z97832, AC003013, AC006441, AC004895, AL023575, AC004655, Z99128, AC004858, AC005568, AC006035, AL009183, AC004598, U47924, AL033392, AP000350, AC005332, Z82201, AC007685, AC005261, AL031737, AC006236, AL035422, AL031255, AC004217, AC000353, AC009308, U62317, AC004796, AL021366, AP001053, Z69837, AL109827, Z85986, Z81364, AL031595, AL034417, AC002378, Z69666, AL031985, AC005527, X55448, AC005598, AC004534, AC007993, AL031848, AC005632, AL034549, AL031005, U95739, AL022326, AL121852, AC006115, AC004797,

HBMTW58	280	806670	1 - 651	15 - 665	Z98885, AC004843, AL021155, AC009516, Z69705, AI031291, AC002310, AC008372, AF001548, AC004979, AC005331, AC004999, AC005768, Z83846, AC000026, AC004883, AC005193, AL035423, AL022721, AC006273, AC007878, AC002404, Z83822, AC001227, AJ003147, and AL035071.
HBMTX29	281	689834	1 - 139	15 - 153	
HBMTX84	282	537385	1 - 338	15 - 352	Z93017, and AL009181.
HBMTY82	283	523728	1 - 316	15 - 330	
HBMUA62	284	557828	1 - 330	15 - 344	AI064768, Z98753, AL031681, Z95703, AC000354, AC007036, AL135746, AL109653, AP000516, U82672, AL133512, AL049648, AL033530, AC004986, AC002357, AL049554, Z83850, AC006152, AL022164, Z75895, AC010349, AL022310, AC004191, AB014088, AL096803, AL021812, AC002069, AC011604, AF121898, AC005323, AC006354, and AC004930.
HBMUD12	285	574796	1 - 306	15 - 320	AL122020.
HBMUF60	286	740606	1 - 311	15 - 325	AC007536.
HBMUG57	287	735024	1 - 303	15 - 317	
HBMUH62	288	752244	1 - 329	15 - 343	AL096791.
HBMUJ84	289	531159	1 - 243	15 - 257	AI312718, AC005023, Z95118, AC005041, and AL034548.
HBMUK59	290	712591	1 - 462	15 - 476	
HBMUN30	291	693337	1 - 559	15 - 573	AF015720, AJ229041, AC005829, AL031283, AC000134, and AL031255.
HBMUO10	292	953933	1 - 316	15 - 330	
HBMUO12	293	417210	1 - 178	15 - 192	
HBMUO90	294	928078	1 - 311	15 - 325	AL022313.
HBMUP35	295	531101	1 - 236	15 - 250	
HBMUT83	296	793052	1 - 462	15 - 476	AW080842, AI126237, AA033525, AI288602, AA070152, AI200312, AW293916, AI738708, AA033526, AW182578, AA961647, AA808104, AA884100, AA410505, AI635980, AA580797, AA748547, T71568, AI004853, AA975024, AI674097, AA988905, T82022, AL133609, AL137420, and Z94722.
HBMUV03	297	924916	1 - 394	15 - 408	
HBMUY32	298	959968	1 - 234	15 - 248	
HBMUZ96	299	574522	1 - 208	15 - 222	AL020995.
HBMVA83	300	529815	1 - 275	15 - 289	AL043165.
HBMVE14	301	545170	1 - 685	15 - 699	AA160290, AA357550, AW377670, AA046565, AA447158, W42824, and N21687.
HBMVI79	302	781686	1 - 227	15 - 241	AC020663.
HBMVI94	303	574511	1 - 191	15 - 205	
HBMVO02	304	920759	1 - 598	15 - 612	AL109839.

HBMWA31	305	529678	1 - 406	15 - 420	AW291592, AA135499, AI949732, AI367157, AI040759, AA682731, and AA764743.
HBMWA57	306	526863	1 - 202	15 - 216	AC002470.
HBMWI35	307	706033	1 - 367	15 - 381	
HBMWJ01	308	959223	1 - 635	15 - 649	AI621074, AA648509, AW103842, AI133256, AF118079, and AL133216.
HBMWL30	309	936058	1 - 309	15 - 323	
HBMWL91	310	529837	1 - 202	15 - 216	
HBMWQ85	311	765109	1 - 397	15 - 411	AW377503, AA007382, W23548, AA001311, H53191, and N78201.
HBMWV93	312	574801	1 - 439	15 - 453	
HBMWX74	313	573336	1 - 310	15 - 324	AC004223.
HBMWZ14	314	573335	1 - 311	15 - 325	
HBMWZ16	315	712832	1 - 482	15 - 496	AI436109, H27387, AI889289, AI027575, N79584, AA828426, AW014938, N79587, AI174444, AI143425, AW247147, AA826017, T59414, AW087276, AI434510, AI913074, AI351503, AI200849, AI921728, AI222784, H11717, AI246366, AI936789, AA281074, AI093047, AW004642, AI826923, AA857401, AI313190, AI589862, AI581002, T66176, H14297, AI313169, and AI658705.
HBMWZ94	316	573348	1 - 334	15 - 348	
HBMXE31	317	573323	1 - 298	15 - 312	
HBMXF47	318	573324	1 - 66	15 - 80	
HBMXG08	319	959766	1 - 405	15 - 419	
HBMXH68	320	571361	1 - 584	15 - 598	
HBMXL10	321	968054	1 - 385	15 - 399	
HBMXM65	322	925570	1 - 467	15 - 481	Z55829.
HBMXN39	323	705578	1 - 348	15 - 362	AI054090, AI246061, AI251944, AI251034, AI251203, AI251284, AI250552, T93105, AI690497, AA502098, AI300054, AI251241, F33126, AI254770, AI133514, R51582, AI160786, AI223626, AA779667, AI421723, AL119156, AL119182, AW019964, W63553, AA378207, W81372, AA714011, AI866970, T08386, AW303098, AI570019, AI749306, AA558366, AW069227, AA492114, AA664126, AI368873, AA805989, H86579, AI889579, AI634187, AI457313, AA772704, AA745628, AA582746, AA491767, AA938727, F35684, AA657910, AA837771, AA831408, AI619994, AA584493, AA769141, AA302934, H95822, AA587215, AI858272, AW161016, H78984, W95552, AA078128, T64444, AA890060, T39230, AA568747, T51556, AA973913, AA244406, AW236277, N25079, AW392414, AL134940, AI110760, T61928, AW169390, U46402, AI650702, AA122310, AC007406, AL022726, AF196972, AC005881, AL022320, AC006270, AF178030, AC006576, AP000501, AC004813, AC009248, Z99128, AC005899, AC012627, U82828, AC006084, AC008123, AL049694, AL109963, AC002425, AC005157, AP000011, AL031432, AF196779, Z98304, AC005291, AL135744, AF165926, AC005516, AC005529, AL133246, AC004812, AC005519, AC005082,

Clone	No.	ID			Accession Numbers
HBMXN69	324	731274	1 - 356	15 - 370	AL031311, AC003982, AC002310, AC006344, AC003080, AC007447, AP000310, AP000309, AP000048, AP000116, AL078581, AL109758, AF042090, AP000086, AL031003, AL096701, AL024508, AR036572, U91328, AL117337, AF205588, AC007014, Z84487, AC006538, AC002045, AC004526, AC002059, AL023807, AC006079, AC000025, AC005736, AL121655, AC005527, AC005411, AC005189, AC004262, AL079305, AC007055, AF165176, AC006450, AL031230, AF049895, AC005754, AC007676, AC003109, AC003684, AF117829, AP000557, AL024474, AC002470, AC005919, AC007363, AL024507, AC002302, AL022318, AC004876, AP000066, AC003093, AC005914, AP000014, AL031584, AC007312, AL110122, AC004682, AC007066, AL078477, AC005325, AC007637, AC004674, AC005925, AP000282, AL021394, AL109628, AC007685, AP000692, AC009509, AL049760, Z97180, AP000040, AP000108, AF184110, AC002544, AF196970, AC005562, AC005180, AC003967, AL049834, AP000213, AC004849, AP000135, AC007993, AC004025, AJ010770, AL022238, AP000031, Z95152, AP000313, Z97053, AC006059, AC004651, AD000813, AC005846, AC002039, AC006509, AC004000, AC007387, AB001523, AP000555, Z97635, AL031668, U70984, AF196969, AL021920, Z94056, AC009247, AP000050, AC007279, AC005913, U91318, AC006285, AL021978, AL008719, AL109756, U91321, AL049553, AF019406, AC007129, AC004598, AC005800, AC006480, AC005871, AJ251973, AF053356, AP000355, AC003041, AB020874, AC005755, AC004859, AJ251973, AF064864, AL035455, AC002365, AC004765, AL035443, AC004560, AC002492, AC005737, AF064864, AL035405, AC005049, U91326, AC000379, AL121852, AF091512, AL133485, AC003665, AL033405, AC005049, U91326, AC004893, AP000552, AF180748, AP000321, Z85987, AC004491, AJ003147, AF134726, AC004893, AP000552, AF180748, AP000321, AC000118, AD001502, AC002554, AP000260, AP000193, AP000099, AP000121, AL049643, AP000036, AL008707, and AC010170.
HBMXO08	325	959768	1 - 336	15 - 350	AI934342, AI652289, AI749542, AI708414, AI659752, AA521117, AI685658, AI469153, AA810054, and AA749006.
HBMXP90	326	574802	1 - 576	15 - 590	AI206408, AI765081, AW117539, W76554, W47134, AI282130, R00077, AW139096, AI970492, F10866, AW003300, AI492386, AI473105, AI699748, R38163, AF007132, and AC006055.
HBMXR44	327	693123	1 - 400	15 - 414	AA094354, AL120141, U49973, Z99128, D83253, AP000150, AP000009, AC007869, AC007297, AL031781, AL022333, AC018633, and AC004382.
HBMXS38	328	706039	1 - 654	15 - 668	AA806368, and AI811425.
HBMXU37	329	787155	1 - 512	15 - 526	AA354804, H95288, and AC004472.
HBMXW13	330	657241	1 - 408	15 - 422	AL035461.
HBMXW73	331	764440	1 - 338	15 - 352	AA634933, and T63384.
HBTAE07	332	953607	1 - 543	15 - 557	AA618452, AA478355, AI284640, AA493695, AI046409, AA453558, AI133297, AL045808, AL046156, AI270117, AI345157, AA490183, AI583283, AW275510, T06754, AW438555, AI499588, AW149313, AA584167, AA775143, AA836811, AA483929, AL042753, AA938105,

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Name	No.	Seq	Region 1	Region 2	cDNA Clones / Accession Numbers
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HBUAG42	333	676856	1 - 349	15 - 363	AF108138.
HBYAA17	334	924209	1 - 213	15 - 227	AI310343, AA559205, and J03059.
HBYAB40	335	463488	1 - 307	15 - 321	AA713872.
HCFAA38	336	576731	1 - 408	15 - 422	
HCFAC84	337	869259	1 - 626	15 - 640	AI031733.
HCFAF63	338	689719	1 - 404	15 - 418	
HCFAT85	339	728254	1 - 333	15 - 347	AA527109, AA533660, AF205588, Z83820, and Z82200.
HCFAU41	340	576064	1 - 452	15 - 466	
HCFAU74	341	576069	1 - 201	15 - 215	
HCFAV46	342	924086	1 - 515	15 - 529	AL110393, H58351, AA564859, H58740, AW074398, AW023672, AA714595, F37169, AI561335, AW086257, AA626678, F37223, AA878495, AA558697, AA515435, AI205126, AA366035, AA654627, AA626747, W60516, AW302322, H64777, AA077817, AA748121, AW268338, AI648558, AA355281, AI867044, AI198376, AI284640, AW088058, F36273, AI053907, AA652057, AA649642, AI853364, AA308806, AL036523, AA317170, AI016000, F19258, AA434484, AA095511, AA605274, T40617, F32705, AA663922, M78150, AI252884, AI110770, AI446638, F29989, AI888926, AA342901, AA318652, AW406447, F25135, AW301937, AI281881, AI281903, T40338, AW265654, AI567577, AI358343, AI026770, AW419262, AI200051, AI053672, AI435544, F18974, AA059154, AW166815, AA127354, AW151884, AA377730, AI471543, AI358229, AI471481, AI924251, AI061334, AW406755, AA321311, AA125788, AI824562, AW080134, AI688846, AA515224, AA127353, AA831388, AI365988, AA745410, AA908687, F36404, N71724, AI334443, AI963720, AL120483, AI298710, AI654588, AA569187, AA913549, AI630203, AA663306, AA177061, AA704643, AA338431, AL120295, AA557879, AA565666, F28576, AA446955, AA715270, AW339687, AW276827, AA661948, AI446464, AA904218, AI654529, AA483034, AI569086, AI350211, AW193265, AI286356, AI144330, AL042753, AA173238, F35113, AI635272, AW264973, AA650244, AI343173, AI375710, AA559290, AA327323, Z98473, AI623898, AW193432, AA176924, AI341664, H56013, AA610491, AI160582, AA578141, W95976, AI890918, AL046409, AI709365,

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Clone	No.	ID			Accessions
HCFAW03	343	924532	1 - 330	15 - 344	and AF217403.
HCFAY27	344	784950	1 - 254	15 - 268	AI952593, AA402934, and T24885.
HCFAY33	345	576058	1 - 166	15 - 180	AA680371, and T85563.
HCFBA96	346	853961	1 - 176	15 - 190	AC005969. AI613235, AA903469, AA813305, F25776, AW071554, AW150820, AW194200, AI983597, AI246999, AW004802, AI364662, AI282522, AA628330, AA229754, AA526614, AI365012, AI299507, AI918967, AI553849, AI560300, AI950742, AW075387, AA868647, AA447147, AI690364, AA411518, AA713800, AA953331, AI094450, AA682774, R96820, AA302484, AA872093, AI300639, AI015741, AA130713, AW262508, AI051521, AA496620, AA978132, Z38471, AA736839, F31462, F18178, AI350873, AA805472, AA088865, AA496495, T24559, AI081865, AI144428, H61569, AA373811, AA229480, AA132945, AA703237, AA229962, AI690503, AA745775, AI720505, AI453250, AW009901, AW015954, AW118526, AI249388, AI282565, R56834, AI219656, AI285115, AI369774, AA461097, AW130721, AW339140, AW273429, AW148657, AI538694, AA065282, AI866733, AI874208, AI199700, AI805844, AW008035, AI829142, AW337251, AI983830, H46569, AI814591, AI818220, AW269978, AW168266, AI186921, AA229233, AI610303, N34882, AA832328, AA923506, AI078009, AI301063, AA670351, AI203695, AI339100, AA987523, AI803837, AI751711, AI445423, W94943, AA449775, AA280728, AI017038, AW276596, AI423558, AI828679, AA677814, AI954092, W68425, AI754933, AI799656, AI092937, AI277972, AW274402, AI310725, R59097, AI279557, AI310726, AW410249, AA526185, AA573897, AI078388, AI741564, AI147456, H98073, AW410004, AI300518, AA526998, AI721118, AA522451, AA508660, AA004278, AW182880, AW411240, AI953077, AA533655, AI283484, AI970703, W90665, H56058, AL120205, R10734, T73441, AI591031, AI741030, AW270071, AI827198, AA628743, H25535, AI972733, AI927014, T51235, N91829, AA853526, AI860745, AI887607, AA580297, AI348361, R56835, AA229196, AA858412, AA102712, AA228723, AI535963, II26397, AA526103, AW189969, AA229458, AA644220, D25820, AW410257, AA557419, AF151822, AF176006, AF189289, and AF192559.
HCFBB14	347	658542	1 - 233	15 - 247	AA223831.
HCFBD91	348	850449	1 - 141	15 - 155	AF172244, and Z74023.
HCFBF07	349	953506	1 - 286	15 - 300	
HCFBG82	350	870890	1 - 551	15 - 565	AI127475, AI871007, AA142876, AI523587, AI830621, AW134689, AI825831, AA773904, AI862655, AA143146, AI768600, AA576383, AI307774, AW274750, AI916645, AA633463, AI334590, AI867665, AI867677, and AW152392.
HCFBI39	351	576018	1 - 330	15 - 344	
HCFBI80	352	576669	1 - 466	15 - 480	
HCFBL08	353	959617	1 - 289	15 - 303	
HCFBN62	354	576126	1 - 628	15 - 642	AA553332, AA343810, AI354333, AA496309, AA745302, F01222, N70957, AA757869,

HCFBO39	355	835926	1 - 423	15 - 437	AA584597, AW277135, AA297698, AA532875, AI146266, AW249720, T30864, AA484256, AW084161, AA295874, AA295865, AA225358, T63747, AA167549, AA229842, AI866971, AL096766, AC005225, AL133163, AC003663, AP000501, AC004927, D87675, AC005237, AC006285, AC005089, AL031587, AC005215, AF111168, AL031176, AL034429, AL109801, AL121655, AC004821, U07561, AP000359, L78833, AP000555, AL133241, AL022323, AC016025, Z95114, AL117258, AP000343, AC002432, AC004216, Z93017, AL031276, AL035071, AL050302, AL049569, AP000263, AC002395, AC005483, AP000036, AI049692, AC005387, AL096791, AP000088, AL133448, AC000397, AC005808, AC006315, AL022163, AC002106, AR004690, AC006430, X87373, AC005358, AC004983, AC005621, AC009069, AL096703, AC008150, AC005755, AC005102, Z98884, AC006211, U82757, AC005740, AC006128, AC005527, AB016897, and AC004476.
HCFBO76	356	577218	1 - 301	15 - 315	AF031077, AF031076, AF031078, and AF030876.
HCFBR92	357	576864	1 - 463	15 - 477	
HCFBS25	358	828076	1 - 326	15 - 340	AI028522, AI040333, and AI055988.
HCFBS73	359	506244	1 - 484	15 - 498	F19258, AI820743, AI003172, W60516, AI003743, AA551509, AL038785, AW104748, AI365988, AA635417, AI205126, AI762575, AA229785, AI914706, AI350211, AA584749, AA557325, AA483204, AI962050, AA340003, AI917271, AW265294, F29989, AW166815, AA077935, AI358229, AI904894, AI567674, AW339687, AA856981, AI635272, AI815000, F28576, AI474713, AA973575, AI569086, AW080134, AI038279, AW337985, AA515051, AI079910, AI133636, AW130799, AI445436, AI890052, AI963786, AI929531, AL079645, AA482711, AI469003, AI433187, AI890923, AW162049, AL042856, AI679782, AA713815, AA077817, F31619, AA344959, AL119391, AA579184, AA077952, AL041368, AW440836, AA558269, AW029038, AW118011, AW105538, AI625244, N99715, AL040913, AW088202, AA228329, AI421213, AI471729, AI358343, AW003434, AI866807, AW264969, F36273, AL048144, AI499094, AI051551, AW069807, AI049722, AI339850, AW193432, AI284640, AW074398, AI149915, AA904218, AW406755, AL041412, AW088616, AI244254, AL120674, AA340960, C06327, AA365587, AI064952, AW265197, AI608626, AL046746, AI547286, AA743956, AI653515, AA228420, AI282907, AA837755, AA339076, H88666, AI251002, AW275664, AI305766, AA639025, AA601270, AI053535, AA745410, AW338500, AI963720, AI761471, AW327360, AI565873, AI468134, AA366035, AI922840, AI886060, AA078483, F31204, AI341664, AA826032, AI590038, T12272, AA501344, T29180, W49488, AI610159, AA533138, AI934307, AA516326, T55510, AW407220, AI720141, AA601218, AA381665, AA515128, AA365144, AI286264, C05755, AI688846, AA658235, AA826303, R89296, W38648, AA580662, AW131034, AI291047, AI935827, AI918421, N58729, AI886365, AI827234, AW151016, AW023672, AI821776, AW157005, AW193265, AI028510, AI613280, AW103239, AW419118, AA987962, AA669961, AA843450, AI637587, AI082510, AA133986, AI951928,

AA732212, AA659774, AA528441, AI061334, AI291823, AA492244, AI807372, AII124660,
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HCFBU01	360	916703	1 - 543	15 - 557	AP000292, AC004391, AF039905, AC006277, Z68328, AP000958, AC006561, AP000566, AL031662, AC005144, AC004636, AL022157, and Z84485.
HCFBU38	361	707620	1 - 273	15 - 287	AC011422.
HCFBU84	362	573546	1 - 447	15 - 461	AA654338, R11792, R18553, AA488229, and R33569.
HCFBU85	363	576010	1 - 255	15 - 269	A1817736, AI084181, and AI918987.
HCFBW13	364	828042	1 - 458	15 - 472	AP000315, AP000118, and AP000165.
					Z42409, R59109, W78198, AW276841, R14684, AC004013, AJ010770, AB018346, AF091711, AF083037, AB019691, and AJ131693.
HCFBY02	365	920340	1 - 409	15 - 423	AI859280, AW392291, AI342622, AI598003, and AW167154.
HCFCA31	366	725700	1 - 421	15 - 435	R09578, AA676513, H10338, AA313594, AA336022, N25123, T32628, AL135366, N56063, Z42875, R47343, AA411514, T55290, H40743, AA402101, AA496316, AA320228, AA040891, AB027196, and D87451.
HCFCB67	367	751764	1 - 445	15 - 459	AA862312, AI564185, AA702605, AA469451, AA844594, AI742168, AAA847499, AL042667, AL042670, AI679294, AW169038, AA481887, AI679871, AA827771, AI143840, R93642, AI623364, AF003626, AC006277, AC005534, AC002542, AL049759, AL021940, AL031848, AC005512, Z93930, AL021877, AC005488, AC005666, AL096712, AC004019, AP000133, AP000211, AL050332, AF134726, AC004913, AC007676, AP000503, AL034420, Z99716, Z97632, AC005280, AC007536, AC004596, AC002316, AC007731, AC005500, U47924, AC006441, AL033527, AC004526, AC000025, AL096701, AL022336, AC005971, L47234, AC008124, AL035420, Z95114, AF064861, AP000140, AC005529, AC004033, AC008372, Z98742, AC000120, AL008718, AL022320, AC005899, AF190465, AC005696, AL049776, AL109827, AC006207, AC005015, AC003977, AF048729, AF109907, AP000501, AC005932, AL135744, AL133371, AC009247, AL034429, Z82190, AF031078, AC004150, AF030876, AC002115, AL132987, AP000088, AC006121, AC005300, AL133245, AC007541, AC003950, AC004825, AL035703, AC009044, AL133233, Z84496, AC002470, AL022313, AC007308, AC006487, AC002558, AL022163, AC002425, AC004821, AC006455, AL022322, AC006273, AP000432, AL050318, AF111169, AC007878, AP000513, AL049869, AL096699, AC007066, AC005821, Z98044, AL031680, Z83819, AC005520, AP001052, AL031780, AC005625, AC007664, AC005871, AC006312, AF002223, AL031597, AC002477, AL031005, AL031846, AC005255, AL021546, AC005060, AP000030, AC006538, AC005067, AC005839, AC006023, AC005232, AC008249, Z93020, AC002543, AL035683, AC007546, AL020997, AC005527, AC005484, AC005881, AL021391, AC005841, AC006111, Z84480, AB017602, AC005399, Z82198, AC005940, AC004228, AL035079, AC004796, AC005326, AL008635, AF001549, AL139054, AC005304, AL034417, AL121653, AC005237, AL079342, AC004750, Z82097, Z99128, AC005924, AF108083, AC000118, AL133163, AC005412, AC005920, AC005568, AL109980, AC004832, AC003684, Z85987, AC004686, AF053356, AP000116, AC002472, AC008122, ...

HCFCC57	368	577375	1 - 390	15 - 404	Z93023, Z93096, AC012384, AC006241, AC005231, AC004024, AC002310, and AC006042.
HCFCC68	369	753089	1 - 276	15 - 290	AW341274, AI458691, AI802196, and AA937243.
HCFCC94	370	670538	1 - 431	15 - 445	AC005776.
HCFCD44	371	883973	1 - 396	15 - 410	AC009731.
HCFCF47	372	894415	1 - 382	15 - 396	AI086865.
HCFCH47	373	720400	1 - 267	15 - 281	AC003072.
HCFCJ21	374	671028	1 - 179	15 - 193	AI472536, AL119457, AL042382, AW117919, AI625464, AI400725, AL041150, AI824576, AA911767, AI927755, AW265004, AI932915, AI554343, AI345416, AI345612, AW084425, AI345415, AI611348, AL042544, AA833760, AW161156, F27788, AI073952, AI280670, AL079794, AA603709, AI174394, AW022682, AL079960, AI874151, AI924686, H42825, AW163823, AI886022, AI932638, AI568114, AL038445, AI433206, AI866770, AI969655, AW080402, AW022699, AI954504, AI627880, AI523827, AI284484, AW268243, AI382201, AL120921, AI251221, AI345608, F35882, AI868204, AW148356, AI470651, AI269862, AI699011, AW167918, AW078800, AI345471, AI886753, AI866082, AI866741, AI784230, AI334450, AI916419, AI783861, AW193134, AW193203, AL119399, AL036638, AI494201, AW021588, AI800341, AI310332, AL037454, AL036403, AI249946, AW268220, AA814990, AL036215, AI648684, AI470293, AI521594, H89138, AI677824, AI582483, AW148716, AI866798, AI860897, AI382670, AI863321, AW089275, AI335426, AI348777, AI919500, AI352326, AI866127, AW168485, AI345148, AI627745, AI241923, AI624293, AI680498, AI280607, AW302988, AL120736, AI698391, AL121328, AA807088, AI623682, AI682652, AI613548, AI890907, AI284131, AI434453, AI628833, AW189415, AW168031, AW169653, AI344785, AL036214, AW167086, AI620284, AI582932, AL134999, AI469738, AI343059, AL040241, AW302854, AI280747, AA761557, AI799195, AI623622, AW152469, AI866469, AW149925, AL036396, AI358213, AI573026, AI349933, AI349004, AW162194, AI539028, AI348897, AI590423, AI310155, AA848053, AI345253, AI344935, AI934039, AI687065, AW090393, AI343091, AW150794, AI345677, AW058233, AI866820, AI358701, AW169604, AW149227, AI926878, AL110306, AI862144, AI583308, AI811684, AI889168, AI554821, AI568132, AI470648, AW196105, AW193872, AI473598, AL046926, AL041772, AI367210, AI783504, AI929108, AI335209, AW073697, AI567351, AI446092, AI678480, AA983883, AI921386, AI698401, AI266436, AI689420, AA830821, AI288285, AI890806, AW050578, AI589267, AI685211, AI306705, AI955906, AI345746, AI612885, AW167448, W33163, AA494167, AW023859, AI590686, AI950664, AW192052, AI561132, AI637748, AL036673, AW089572, AI954422, AI680389, AI471361, AW051088, AI696969, AW172723, AW162071, AW059713, AW271119, AL038605, AW162189, AW020693, AL038565, AI371228, AI580674, AI344928, AL042440, AL037030, AW088134, AI349798, AA910956, AI680377, AI633477, AI680457, AI249962, AI288050, AL036718, AI587606, AI431424, AI686631, AI468872,

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				H05227, AL134081, AI908615, and T79253.
				H79453, AA053463, AA302978, AI310992, AI300818, AI619994, AI962030, AW083934, AW008074, AW270768, AI446205, AA480486, AA469230, AA486277, AW083678, AA176604, AA862029, T93109, AA228778, AI267884, AA302661, AI653776, AL039309, AW082104, AI250552, AI251034, AII85394, AI254770, AI284543, AI054090, AA501655, AA515351, AI915081, T94072, AI309059, F17537, AI583291, AI078409, AA904211, AI291037, AI567676, F32248, AA683069, AI251284, AI251203, AI223626, AI249853, AI421755, AW242031,

					15 - 860
				1 - 846	15 - 436
				970835	
			375	850422	1 - 422
HCFCM12	375				
HCFCN66	376				

AA487209, AI271762, AA354695, AI049504, F35684, AW195271, AA420703, AW105729, AW192518, AA429481, AA541532, AW073934, AI310343, AW194046, AA135761, AI889579, AA410788, AW277174, AI216151, AI366555, AA573000, AI050076, AA553594, AA728894, T48723, AW341882, T47075, AI082510, AA669961, AA664126, AA568314, AA745628, AA513884, AW419389, AA579184, AA525253, AI251241, T41134, AW302017, AW023111, AA484892, AW089950, AW341955, AI278072, AA704393, AI356440, AI106717, AA768179, AW327751, AI521019, AI984168, AA947370, AA349606, F23262, AI254779, AA365586, AI929531, R67701, AI872229, AA599710, AI268818, AI471455, AI340832, AI031759, AA738014, AA721645, T93105, AA278496, N71619, AA715351, AA728861, AI572680, AA493840, AI300054, AW169038, AI049722, AF111168, AC005280, AL050321, AL049843, AF003626, AL133246, AC004834, AP000030, AC007510, I34294, AP000556, AL022333, AC005015, Z98051, AL031985, AL022326, AC004491, AC005696, AL031280, AC005327, AC005005, AL035587, AC005841, AC006275, AL031121, AC004552, AC004623, AC005288, AL008726, AC004990, Z69719, AC003098, AP000354, AP000298, AB001523, AC006241, Z68276, AF039907, AL133245, AP000252, AC005031, AC005839, AC005559, AL133448, AC000353, AP000212, AP000134, AC004999, U80017, Z85996, AC005914, AC004254, AC003688, AC005037, AL139054, AL096701, AC006288, AC005632, AF001549, AP000044, AP000112, AL096775, AC002381, AC002401, AC007731, AC005261, AC005500, AC005901, AP000691, AC007688, AC007690, AC005902, AC008154, AC006597, AL035413, AC006487, AC006539, AC006370, U81031, AC000028, AC002375, AP000692, X54156, U94788, AL021155, AC007565, U73330, AL022398, AC007421, AL008730, AC005231, AC007766, AC006511, AL034395, AC003962, Z97056, AC004973, AC002472, AC002477, AC002119, AC006450, AC006042, AC006468, Z69917, AL049873, Z98885, AC005972, AL109613, AC005788, AL031393, AC005913, AF045555, AI246003, AC004462, AC004796, AP000688, AL050318, AL031588, AL035652, AC004878, AC004856, AC003007, AF064866, AC009247, AC007225, AL031255, AC003690, AC005365, AL031229, AC006538, AL031685, AC006116, AP000512, AC004150, AL008719, AC006544, AC004659, AC004771, AC004643, AC007686, AL121754, AP000501, AC004752, AF047825, AF053356, AP000300, AL080317, AC004103, Z84469, AP000116, AC005800, Z82208, Z93017, Z98047, AL133355, AP000151, AL049780, AL008720, AP000511, AL049631, AC007243, AL034420, Z96074, Z82244, AC003071, AC005004, AC007312, L77570, AC007546, AC006455, AL035089, AC002288, AC005207, AC005520, AL121655, AL109799, AL021808, AC002312, AC007664, AC005828, AC004590, AC008989, AC004033, AC005874, AF134471, AL035455, AC004983, Z97989, AC007226, AP000152, AC007429, AC002527, AF064857, AC003043, AC008064, AF001550, AC004797, AL035695, AC005736, AC003667, AC002492, AC011456, AC002565, AC005220, AC004966, AC005778, AC004019, AC008045, AC004814, AC006084, AL121603, AL024498, AC005324, AP000113, AP000045, AC005837, AC005777, AC002563, AC005239, AC008044, AL031667, Z93241,

Clone	SEQ ID	ID No.	Range 1	Range 2	Accession Numbers
HCFCN81	377	576871	1-581	15-595	AL078581, AC004851, AI031663, AL031282, AL009181, AC000025, AC004650, AC005180, AC004859, AC006464, AP000115, AC002476, AC006101, AL117354, AL031284, AC005535, AL133312, AC002390, AL031848, AC006537, AC006271, AC005723, Z83840, AC004707, AL034402, and AC008372.
HCFCP14	378	577277	1-318	15-332	R13709, Z44811, and AA084016.
HCFCP31	379	764750	1-431	15-445	AL043121, H26563, AA774273, and AA480145.
HCFCR76	380	862682	1-552	15-566	AL033547.
HCFCX73	381	575988	1-349	15-363	H80303, AI809174, AC005091, AC004671, AL031283, AC020663, AL034417, and AC002527.
HCFDB13	382	576709	1-325	15-339	
HCFDD48	383	720938	1-363	15-377	
HCFDE10	384	961270	1-411	15-425	
HCFDE19	385	671507	1-550	15-564	AA126608, and AC003959.
HCFDE79	386	575996	1-350	15-364	
HCFLC28	387	968304	1-344	15-358	
HCFLD28	388	850564	1-517	15-531	AW294229.
HCFLD78	389	773685	1-659	15-673	AA284537, AI161251, AA703386, AI144156, AI080716, T95314, H44601, R54003, R53410, AA707567, T95396, AI863960, AA705879, AA444145, AA443965, AL045360, AI819631, AI862146, AL119399, AI336575, AI289542, AW020397, AL043168, AI253379, AI620056, AW162194, AI698391, AI633125, AA587590, AW051088, AL046466, AW151893, AI638644, AI345415, AI890907, AI345612, AI590043, AI589428, AL042382, F27788, AL037454, AI800341, AA806719, AI345416, AI565172, AL043152, AI679550, AI567582, AI802542, AL042544, AA500061, AW089844, AW274355, AI884318, AL079794, AL119457, AI929108, AI637584, AI889189, AI470293, AL041862, AW152182, AI345688, AI923989, AI567513, AW051059, AW007309, AI479292, AI538850, AI866469, AI890391, AI538764, AL036187, AI817523, AI702073, AI473536, AL119324, AI433500, AI499890, AW129264, AI636588, AI540458, AI954183, AW129659, AI673363, AL040241, AA808175, AL110306, AI267162, AI432644, AI870192, AI969655, AW301344, AL038505, AI254814, AW059766, AA580663, AI446775, AI567769, AI469425, H89138, AI491710, AI270183, AI690813, AI433157, AI589134, AW021717, AI539800, AL119511, AI538885, AW022300, AL046618, AI282679, AW104056, AW021178, AL037582, AI245008, AL037602, AI540674, AI685080, AA975952, AW079572, AC008151, AF146191, AC005296, AC007392, AC007298, AC002464, AL035258, AL031904, U95739, AL031732, AC018769, AC018767, AC002287, and AC009286.
HCFLE44	390	576679	1-339	15-353	
HCFLE95	391	945122	1-576	15-590	AI697165, AI434288, AA642239, AI818876, AA970105, AI271514, AI571352, AA411035,

HCFLF96	392	579039	1 - 330	15 - 344	AI371320, AA865735, AA134979, AI133257, AI536699, AW248707, AI198061, AW182002, AI261681, AI991804, AA344380, AI810573, AI685434, AA293139, AI699206, AA652700, AI688845, AI458014, R60967, AW007141, AA419241, AI089210, AI369965, AA489594, AW383812, AI739141, AC004707, and D13623.
HCFLG84	393	711243	1 - 425	15 - 439	AA978266, AL049780, and AC007055.
HCFLI49	394	722269	1 - 525	15 - 539	AA312278.
HCFLJ40	395	576068	1 - 324	15 - 338	
HCFLP31	396	698139	1 - 460	15 - 474	
HCFLR55	397	576043	1 - 243	15 - 257	Z84475, and AC006024.
HCFLR83	398	576054	1 - 576	15 - 590	AL043019, AL042433, AI142132, AW372827, AL134902, AI142137, AL134524, AL119401, AL119443, AL042450, AI142139, AL042896, AL079687, AL039912, AL134525, AL119522, AL119396, AL042978, AL042544, AL042614, U46351, AL134536, AL042965, AL042975, AL119418, AL037205, AL042984, AL042542, AL119464, AL043033, AL043029, AL042551, AL119511, AL043003, Z99496, AR069079, AR043113, AR066494, and AR060234.
HCFLT42	399	576040	1 - 396	15 - 410	AA281808.
HCFLU12	400	970849	1 - 506	15 - 520	AL096816.
HCFLW58	401	964870	1 - 513	15 - 527	AA082673, and Z36960.
HCFMC42	402	670519	1 - 437	15 - 451	AI040051, AW438542, AI824541, AW021917, AA130647, AI004591, AI270476, AI061313, AA225044, AA878140, AW265090, AA582554, AW167154, AW103383, AI623563, AA862243, AA653139, T50676, AW105729, AA665181, AA610509, AI821044, AL039187, AI590458, AW302048, AA570740, AA483606, AI275183, AA955031, AW075132, AA568204, AI536625, AA658844, AA574442, AI745473, AA879053, AI598003, AA601278, AI559645, AA528480, AA664604, AI292236, AA528390, AA613627, AI590499, AI338426, R94354, AA121777, AI276298, AA191418, AA970967, AI017251, AI791659, AI753365, AI859280, AA598545, AA579566, AA224995, AA584482, AI654285, R94288, AA347114, AI244356, AA581460, AA572685, AW161636, AA618316, R96643, AC005822, U50871, M87914, AC006512, AL035588, S42653, AP000555, AJ131757, AC005399, AL049872, AF053356, AC005341, Z99716, AC005529, AC005057, AP000212, AF196779, AC005778, AL109623, AC005747, AC005899, Z69917, AC006965, AC002470, Z95114, AF134726, AL022069, AC005089, AC005907, AC004408, Z98884, AL022313, AF045555, AL009181, AC005971, AC005041, AC006480, AL049557, AL021978, AF187320, AC009498, AP000512, U85195, AL109952, AP000552, AC007685, AC007227, AC005391, AC007421, AC005288, U47924, AE000658, AL008726, AC006013, AC005588, AC002558, AC005225, AL139054, AC006600, AC004975, AL034555, AC005746, AC005484, AL121694, AC003665, AL035072, Z82901, Z82214, AL050308, AC006953, AC005082, AB022537, AC004099, Z97056, AL034420, X84664, AC007052, AC007686, AL034548, AL033521, AC004386, AC005562, AL096776, AF196969,

HCFMD15	403	975075	1 - 657	15 - 671	AC002504, AB023051, AL049776, AP000502, AL009178, AC004859, AP000496, AC002544, AC005049, AC007563, AB017602, I34294, D84394, AC002425, AC010582, AC004813, AC007201, AL031393, AC002477, AC002314, AP000501, AP000359, AI049694, AC002316, AC005520, Z95116, AC002418, AC005722, AL021154, AL032821, AC002040, AL035587, AC007731, AC004623, AC005086, AC003688, X85812, AC005914, AL049759, AL031668, AL033527, AL079340, AC012085, AC004655, AC002430, AC002398, AL031427, AI117339, AC006538, AC002485, AC005527, AC009516, AF001549, AF047825, U96629, AC007878, AC007387, AL021918, AC003037, AF196970, AC006476, AP000556, Z97352, AC004472, AC006449, AC007384, AC005070, AC006530, AL022721, AL008718, AC008101, AC002457, AC003080, AC003663, AB003151, AC004799, AL050318, AL031228, AC005694, AL078593, Z83840, AL034582, AF109907, AL022323, AL031311, D87675, AJ246003, AC007690, U63721, AC002301, AC007386, AC005378, AC006160, AC009247, AP000704, U91326, AL049553, AC005578, Z93928, AJ011713, AC005261, AC004913, AL078621, AC004019, AD000833, Z97053, AC010197, AC008079, AL031295, AL022318, and AC005500.
HCFMD23	404	676003	1 - 324	15 - 338	
HCFME27	405	576815	1 - 423	15 - 437	AL031283.
HCFMF47	406	973243	1 - 567	15 - 581	
HCFMF64	407	773342	1 - 812	15 - 826	AA243815, AW173441, AW173520, AA354361, AW082254, AI628870, AI936417, AI640772, AW293620, Z32860, AL049667, and AL022398.
HCFMG14	408	576063	1 - 354	15 - 368	
HCFMH12	409	970843	1 - 457	15 - 471	AI446464, AI284640, AA649642, AA515435, AW440976, AW236342, AI264743, AW383634, AA350859, AI623696, F32894, AA483034, AI273185, AI688846, AI205126, AA318652, H64777, T63104, AA470985, AA365347, AA558697, AA535661, AI053672, AA886584, AI064864, AA077817, AI471481, AI910609, AI251002, T07287, AA557879, AW193265, AW383542, AA605274, AA747472, AA513999, AW193432, AI334443, AW088058, AA593060, AW089810, AW272758, AW438643, AI350211, M62249, AI830390, AA177061, F36273, AI110770, AA601892, AI648558, R13151, AA229785, AI832782, AW276827, AI824562, AI590689, AI590958, AA714453, AW338086, AL046409, AI040313, AI608626, AF150152, AA331025, AI085719, AA368936, AI049722, AI281881, AW383608, AA328628, AA328591, T06556, AW383440, AA369477, AI431303, AW383586, AA720702, AI282336, F19012, AA364224, AW406447, AI986251, AW029038, AW383605, F24284, AA593247, AW383624, AI962050, AI341664, AW383606, AI281903, T40077, AI286356, AA653221, AL120674, AI537955, AW261871, AA252763, AI287528, AI653905, AI367401, AW419262, AI367420, AI890923, AI352078, T08638, F37169, AI291124, AI499938, AW272641, AI687962, AA366820, H15679, AI049940, AA300016, AW272925, AW339568, AI929531, AI805380, AI418327, T40338,

AI702095, AW151896, AI041690, AII33164, AI186470, AI720431, AI148245, AI291268, AI358571, AI684208, AI340453, AW249835, AW383455, AW383629, AA084070, F18974, AI431232, F31204, AI287651, AI537030, AI753567, AA632407, AI677668, F33511, AW082063, AA587604, AA704147, AA679672, AW276172, AA719805, AI282832, AW166815, AW168342, AW025031, AA441788, AA626404, AA491762, AA745410, AI434695, AW162049, AA443695, AI613280, AI754955, AI623898, AI339850, AI339440, AA338522, AI287451, AII33636, AI567674, AW406162, AI367471, AI801591, AI270117, AA515051, AI364020, AW022379, AA365302, AA079101, AA572975, W79504, AI341548, AI679782, T07451, AA100372, AA526779, AI904894, AW338292, AI354587, AI917271, AI281465, AI252554, AI538928, AA102047, AI613473, AI268812, AW383596, AA977743, AL079812, AW274349, W47444, AA664535, AA321311, AW023672, AW270270, AI371070, Z93784, AL049869, AC003983, AC004933, AC007056, AC005220, AL031846, AL035071, X87344, AC000067, AL035667, I51997, M87916, AL022324, AC006062, AC006965, AC006055, AL096867, AC004947, AC006212, X75335, Z84476, AB000882, U57005, U18393, AC004878, U18394, AL050308, X55928, U18390, X55932, AC005013, S70697, AC005251, X54180, AC005909, U57009, U57006, AC007126, AC005962, U91324, AL078463, U85195, S75337, M87919, S70694, AP000567, Z98256, AL032821, U02054, U02063, AC005015, AC005348, AE000658, AL096773, AC004638, X55925, AC004963, AL133246, AC005015, AC005389, AF003627, AC004896, AC005246, AL034548, AL035681, S70707, AF147277, U18392, U02058, U18391, AC006925, AL031680, AC006370, AC004158, Z98946, AP000431, AB003151, AP000688, AC005502, AC002119, AC004537, AF196779, U18395, U14719, AL109733, D83989, AL049636, AC005207, AC005915, U14701, U14695, U14705, X55924, AP000346, U14699, U14702, U14710, U14685, U14686, U14689, U14691, U14692, U14707, L81648, AL021453, AC006057, AC005145, AC005297, AL049710, U14718, AC005023, AP000302, Z68165, AC004815, AC007919, X55930, AC003029, AC002056, AC006210, Z84474, AF090944, AF077058, AC006336, AC005019, AC002366, AL031311, X55926, AL133238, AL049835, AC004381, U18398, AC004890, U14708, U02048, AP000114, AP000046, AC005581, AC000124, U14703, U14688, U14687, AL035407, AC005544, AC005341, AP000193, AC007100, Z30993, AL121603, AC006417, AC004220, AF038458, AL008728, AP000050, AL031257, X55922, AF015156, AC007384, AF053356, AL049776, AP000311, AC005696, AC004222, AC006996, Z94277, AC005082, Z49816, AL008718, AC003013, AC007792, AF015147, AP000117, AC006241, AL008723, AC005971, AL078624, AP000017, AP001053, X54175, AL031347, AF161343, AL008709, AC003007, AL080242, AC005284, AC005763, AL008635, U63721, AC005552, AC004496, AL031589, AC008119, AC007421, AC006596, AF029308, AL022476, AC006026, AC005873, AC006536, U14700, AC004668, AC002086, AL080285, AL031770, AC004859, AC005332, U14684, U14693, AC006511, Z99754, AF111169, AC005575, U18396, AL121653, AC005699, AF094481, AP000557, AC020663, AB020859, AC005003, AL022394, D42052, AP001043, AC004895, AL035494, AC005412,

HCFMJ70	410	1 - 342	15 - 356	AC005385, U91327, U66059, AC004799, AI031258, AC006292, AC004996, U07000, AC004006, AC004841, AL022318, AC004987, AC003075, AP000460, and AC005822.
HCFMK25	411	1 - 256	15 - 270	AA493118, and AL135744.
HCFMK27	412	1 - 361	15 - 375	AC006388.
HCFMK49	413	1 - 409	15 - 423	
HCFMK62	414	1 - 423	15 - 437	AL031594.
HCFMK63	415	1 - 365	15 - 379	
HCFML42	416	1 - 451	15 - 465	
HCFMM81	417	1 - 468	15 - 482	AC006406.
HCFMN07	418	1 - 150	15 - 164	AC006978.
HCFMQ64	419	1 - 664	15 - 678	R16166, AW245400, AI092564, AI298418, AI190180, AL135607, AA255476, AW341937, AA774687, AA232248, AI675174, AI356983, AA770006, AI500630, AI200144, AI339987, AW071871, AA350500, AA732754, AI086463, AA055479, AI080604, AI591153, AI090505, AI090526, AI619931, AI151262, AA765701, AI015327, AA173394, AA257977, AI857270, AW058653, AI858857, AI743631, AW131669, AI361482, AA171810, AA621676, AW072043, AA159603, AA165670, AA357206, AA070895, AI083788, AA643264, AA699650, AA373130, N29760, AW248832, AI401838, AI696781, AA086047, AI829320, AA232744, R44869, AA133807, AI089956, F09118, AI352487, AA369978, AA486761, AA182536, AA128868, AI699007, AA134215, AA977086, AI885043, AA232537, AA954867, AI086697, AA256882, AA457397, AA865872, AA757809, AA811925, AW377769, AA805830, AW006314, AI758593, AA045484, AI246878, AA421465, AI679033, AI587487, AI572423, T30157, AA515407, AW193414, AW085830, AI672912, AW196633, AA527495, AA568558, AA026270, AA594129, AI569433, AA864390, F03978, R51276, AW304405, AI017824, AI061053, AI074649, AW009091, AI560098, AA999878, AI888289, AI097160, AI587320, AW002779, AA725226, AI559525, AI017407, AI741332, AI911638, AI685232, AI890180, AW295035, AI991285, AW084565, AI859307, AA947282, AI090794, AI744955, AW182337, AA844680, AA535324, AI014459, H28345, AA357685, AI143713, R35871, AW129646, AA457115, AW044140, R67967, R26888, AI660218, M79078, AI742893, AI436778, AI718841, AW292472, AI818656, AA421496, AA664765, AA621134, AI719132, H65810, N74909, AW087942, AA457447, and AI811113.
HCFMT62	420	1 - 560	15 - 574	AC006479.
HCFMY85	421	1 - 298	15 - 312	
HCFMZ17	422	1 - 475	15 - 489	AW362709, AF165294, AJ012376, and AF165281.
HCFNA30	423	1 - 129	15 - 143	
HCFNB62	424	1 - 336	15 - 350	AW002831, R69527, AA713735, AL118925, AA808982, AA745302, AA335519, AA429481, AW381847, AW381904, AA714073, AA364006, H43183, AA496309, AA577141, AA192366,

AI207476, AA297698, AA676875, AA587078, AI915081, AA295865, AA295874, AW080215, AA367388, AA363027, R52008, AA477517, T83057, AA224807, H89581, AW117723, AA663074, AA522500, AI439393, AA630122, H43771, AAS32875, AI271985, AI342183, AI798407, AA441810, AA728939, AA715418, AA225358, AW157731, T07346, AW377893, AA772704, AAS13125, AAS25807, R87275, AI271766, AI368732, AA715075, AI870453, AW074497, AL021368, AC000091, AL035405, AL022336, AF111168, AC008040, Z49236, AC004883, AC005829, AC007227, AC000378, AC006505, AC004851, AC005726, AC007308, AC008928, Z97056, Z95116, AL133246, AC002126, AC006239, AP000555, AC002115, AL035249, Z98950, AC007546, AL031230, AL031905, AC007652, AC004703, AC005914, AP000103, AP000032, AL133448, AL031591, AJ251973, Z99943, AC005952, AL049758, AF196779, AL031848, AF002223, AP000704, AL021453, AC003042, AC002070, AF196971, U62292, AC006965, Z98884, AL021578, AC007637, AL023284, AC005088, AL117694, AC002511, AC005763, AL022238, AC005488, Z73900, AP000008, AC009516, AC006146, AC003663, AC006486, AL078581, AF196970, AC004821, AL031255, U95741, AF042484, AC004531, AC006111, AC005609, AC005874, AF134471, AL021977, AC002404, AL050308, AP000030, AC004583, AC004223, AC003108, AC005920, AP000269, AI135960, AJ131016, AC004228, AC003957, AF030453, AC005753, Z93930, U63721, AL080248, AL035659, AC004687, AF111170, AL022312, D87675, AC004611, Z84469, AF207550, AL117344, AC009802, AL008715, AC008055, AL035086, AC004098, AL049872, AL117258, AC004805, AC002563, AC004644, Z82206, AC005102, AC005086, AC002477, AL031587, Z85987, AC006463, AL020997, U07000, AL022311, AF067844, AL009172, AL133445, AL049843, AF001549, AC004967, AP000212, AP000134, AC004125, AC005722, AC004030, AC004150, AC006163, AC005778, AC004760, M87889, AC005081, AD000092, AL049692, AC005924, AC005531, AF006501, AF064861, AC004794, AL023879, AC006312, AC005409, AC002565, AC010205, AC005206, AL049709, AC005899, AF196969, AC002400, AC006014, AF039906, AC004985, AC002470, AB023051, AC006449, AC005736, AC020663, AL008726, AC007363, AC005231, AC005972, AC004991, AC005755, AC006165, AL049793, AC006509, AC007565, AL031659, AF176815, AC007225, AC005331, AL121825, Z84466, AC002551, AL109798, AC002314, AC005244, AC004881, AL022396, AC005229, AF001550, AC005332, AC002492, AP000494, AC005667, AC005412, AP000689, AC007065, Z95152, AP000556, Z93023, AC007226, AL049776, AD000812, AB016897, AC002559, AC006088, AC005756, AL122020, AL049779, AC004983, U91323, AL132987, AL109801, AL049569, AP000509, AC004552, AC005011, AC005225, AC004770, AC005343, AP000014, AL031258, AL021154, Z98036, AL031284, AL049646, AL022320, Z93020, AC008116, AL031276, AC005786, AL031056, Z97630, AC004841, AC008134, AC004033, and AC004148.

AC005999, AL031012, AL078602, AC002485, AL022164, AL031429, and AC005539.

HCFNK43	425	973548	1 - 693	15 - 707	
HCFNO55	426	576008	1 - 359	15 - 373	

HCFNQ04	427	615351	1 - 888	15 - 902	T57391, N26420, AW340665, AI827647, AA280976, AA521364, AW340711, AI217472, AA429950, AW274378, AW340146, AI970154, AA906042, AI290997, AW188032, AC006208, and AJ003081.
HCFOB11	428	967196	1 - 126	15 - 140	AA648299.
HCFOE38	429	576005	1 - 302	15 - 316	
HCFOF90	430	561625	1 - 529	15 - 543	AI801107.
HCFOG82	431	576007	1 - 380	15 - 394	AA229738, and AA229023.
HCFOH56	432	577114	1 - 385	15 - 399	T71466.
HCFOI11	433	967195	1 - 316	15 - 330	AI066646, AI375684, AI755202, AI720301, AW130427, L42230, AC002128, AC005808, AC005327, AL031965, and AC008994.
HCFOL96	434	796104	1 - 482	15 - 496	Z30202.
HCFOO18	435	575965	1 - 387	15 - 401	
HCFOP42	436	460824	1 - 537	15 - 551	AA480486, AA469230, H81700, AA468356, AA502532, AW238495, AA018923, AI537800, AI609972, AA021561, AA768179, AA608561, AA362349, AA229159, AW392414, AA857812, H86221, AA429481, AA829036, AI267356, AA728861, H99700, AI279417, AA610233, AA773881, AA599080, AI648514, N91711, AI738863, AA558404, AI459733, AA715351, AA601680, N41775, AI267450, AA601212, AW302017, AI185394, H84412, AI471455, N70449, AA564925, W28961, AI280535, AA573000, H24957, AI340858, AI718323, AA376896, AI687343, AW440368, AA654482, F00688, AA351808, AA197019, AI583466, AI306232, AI251576, AA302661, AA297443, AI340700, AA302978, AA629852, AA228979, AI929796, AI933716, W63553, AA457754, AW328331, AA229823, AI253376, AW188742, AW150781, AA946848, AA507675, H67064, AA019003, AW328330, AI932871, H59651, N28624, AI306717, AI137946, AW274191, AA610381, AI249365, AL041375, AA362348, H58293, R69819, AI282629, AI249688, AA515168, AA648569, AC005318, Z95326, AL035088, L44140, AC007993, AC004859, AL133163, AC007056, L77570, AF130343, Z81007, AL080243, AP000503, AL021707, AB002345, AC004856, AF134726, U73644, AC004638, AC004985, AC000003, AC005005, AC005632, AL109967, AL008719, AC002306, M87889, AC006512, AL035400, AL034553, AC004646, AC005768, AC002985, AF207550, AF111168, AC004525, AC006455, AF111169, AP000348, AC005225, AP000349, AL023883, AC004587, AC005189, AC005696, AL096678, AC002350, AC004167, AC002064, AC003108, AC005027, AL023655, AC005569, U96409, AL109758, AC005207, AC005004, AC005071, AL022326, AC003007, AL031584, AP000350, AP000343, AP000555, AL022718, AC006050, Z94801, AC007057, AL049872, AC004817, AC002400, AL049569, AL009050, AC006017, AC005480, Z85987, AC009300, AC006315, AL121757, Z83820, AJ009610, AP001060, Z68285, AP000362, AC006948, AL118497, AL022316, AL096791, AL034555, AC005952, AC007308, AC004030, AF053356, AC002470, AC006013, AP000354, AC007684, AL031685, AC002302, AB015355, AC006509, AL035448, AC006360, AL121653, AL035458, Z70280, AC004967, Z95115,

HCFOP46	437	927654	1 - 390	15 - 404	AL049540, AP000229, AL034420, AC002310, AL117337, AC005483, AC004855, AL121603, AL133500, AF141308, AL034374, Z97989, Z47046, AB020878, AL049759, AC005386, X58139, AF227510, AC007314, AC005666, AC006207, Y10196, Z98257, AL031228, U91318, AC005907, AC004134, AC006121, AC003982, AL031846, AC002565, AL034429, AC005730, AF205588, AC011718, AC008079, Z99716, AC004961, AC008273, AC004895, AL035405, AL031587, U82828, AF042090, AL008716, AC005244, Z84572, AC004408, AL035587, AC002504, AP001068, AC007773, AL009181, Z93017, AC008132, AL031277, AC007160, AL049776, Z83856, AC002365, AL035086, AC007325, AL031651, AL121658, AC007981, AC007685, Z69707, AL008718, AC009516, AP000500, AC004929, AC005837, AC004821, AC009721, AC006071, AC006064, AL049856, AC003077, AP000695, AP000694, AF172277, AP000553, AC007546, AL021453, AF001550, Z84469, AC006262, AL034369, AC004808, AC003957, AC004933, AC005940, AC004857, AC004890, AC002524, AD000812, AC007386, AL022323, AC004996, AL031659, AC002312, AC005519, AC000029, Z83841, AC004222, AC004033, AC006453, AC002559, AC002312, AC002395, AC005102, AC005399, Z96074, AC006111, AL133382, U62317, AC007099, AC007350, AC007790, L81577, AC005186, AL096701, AL133245, AC018633, AC004039, AC004623, AC006026, and AC005344.
HCUAA60	438	670941	1 - 54	15 - 68	AI749002.
HCUAD58	439	738408	1 - 302	15 - 316	AW134410, and AL042629.
HCUAE70	440	959686	1 - 223	15 - 237	
HCUAG89	441	706427	1 - 417	15 - 431	AA342610.
HCUAG92	442	504395	1 - 314	15 - 328	T78930.
HCUAH15	443	916651	1 - 217	15 - 231	AI249862, AA911187, W52505, AW118534, AI085242, H72530, AP000555, D86995, AC004787, Z68870, AL021154, AC004491, AC004142, AI.109758, and AC004032.
HCUAH60	444	916621	1 - 218	15 - 232	R70107, R69934, AL031681, AC005387, and AC004821.
HCUAH70	445	574164	1 - 280	15 - 294	AL049830, AC007280, and AC003982.
HCUAI71	446	959492	1 - 334	15 - 348	AL133485.
HCUAK23	447	676289	1 - 240	15 - 254	
HCUAK49	448	574256	1 - 279	15 - 293	AA502860, AA593267, AA558227, AI446638, F35659, T58118, AL137954, AI963095, H73081, AW028429, AW148792, AL042756, AA487995, AI141675, AI215727, AW438916, AA487884, AI358501, AA579249, AI499094, AW069807, AW085991, AW193609, N27353, AW029280, AI884487, AI676218, AW130535, AI915068, T91187, R80865, AI761471, AI926681, AI860677, AI248679, AA680243, AI625570, AI039451, T65812, N66945, AI625468, AA383838, AA977743, AA629939, AI768952, AI125139, T08074, AA664535, R35972, AL048925, AI928866, AL037574, AA828662, AA339432, Z70688, AC003009, AC006252, AL080243, Z69650, AC005944, AC004167, AC005516, AC004141, AP000065, AC007766, Z84718, AP000351, AC003041, AL049745, AC004253, AC003665, AC005195, AC005668, AL031584, AC005666, S43650.

Clone	SEQ ID	No.			Accessions
HCUAL07	449	953876	1 - 442	15 - 456	AC006128, AC005376, AL035587, AC008071, AC002349, AL096701, AC004531, AL049780, AL139054, AC006530, AC002477, AC005066, AL109802, AP000503, AC004066, AC006600, AF201337, AL049776, AL035450, AC005548, AC008372, AF151680, X14448, AC000125, U78027, AP000692, AC006539, AC004837, AL035422, AL021808, AC007227, AC004216, U66060, AF200923, AC006123, AC007748, AL035451, AC004955, AL031846, AC005914, AL049823, AL023880, AC006480, AC005566, AL080238, AL049699, AC002074, U95740, AC006354, AL021937, AC006559, AC005736, AC007536, AL023579, AJ239325, AL121655, AL022163, AC005924, AC004614, AC005060, AC007845, Z94056, AC004099, Z98884, AC002350, AC004963, AC005084, AC007056, AC004605, AF015155, AP000115, AC004638, AC006543, AL031588, AC003083, AL035461, AC005913, AC006449, AC005531, AL050321, AL049843, AL034420, AL049591, AL034343, AL009179, AB019437, AF111168, AC004797, and AL117375. AI919285, AI091391, AI143678, AW152653, H92931, AW243238, AI863952, AI263430, AI308855, AA814965, AF079098, and AF079099.
HCUAM57	450	574375	1 - 313	15 - 327	T91791, AW071109, AI087055, AA338281, AA225175, AA525157, AA973913, AI348567, AI370548, AC004000, AL121769, AL049759, AL021940, AC008115, AC003108, AC008119, AC005288, AC007308, AC005037, U96629, AC009464, AC007676, AC002349, AL079342, AL050317, U95739, AC007308, AC003101, AC007263, AL034549, AL136504, AC003962, AC005899, AF130343, AL122020, D87675, AL034429, AC004616, AP000141, AC003037, AC005067, AC004890, AC002992, AC007253, AC002302, AC007240, Z82203, AC004685, AC004491, AC004953, AC005391, AC004132, AC015853, and AC006211.
HCUAM95	451	727174	1 - 243	15 - 257	AA613766, Z82901, and AL136520.
HCUAN44	452	574154	1 - 499	15 - 513	AA985143, AL133245, AC009239, AP000500, Z97183, and AL020997.
HCUAN49	453	577897	1 - 163	15 - 177	AA651923, AA765019, AA668900, AA968447, and AC004968.
HCUAN72	454	850140	1 - 191	15 - 205	AI049709.
HCUAO03	455	924902	1 - 311	15 - 325	AA595705, AI886736, AA765409, AC005011, AF196971, AC006530, AC005520, AC006236, and AB020875.
HCUAO28	456	850062	1 - 334	15 - 348	T94088.
HCUAQ92	457	506688	1 - 279	15 - 293	
HCUAR07	458	953872	1 - 147	15 - 161	AW167136.
HCUAT07	459	953869	1 - 484	15 - 498	AL042660, AA633908, AI791151, AW339562, and AL021396.
HCUAU02	460	920694	1 - 140	15 - 154	
HCUAU16	461	574193	1 - 294	15 - 308	
HCUAX57	462	934633	1 - 294	15 - 308	AI243475, AW183326, H22954, and F04138.
HCUBB28	463	685493	1 - 225	15 - 239	AA569686.
HCUBB46	464	577238	1 - 327	15 - 341	

HCUBE26	465	810522	1 - 99	15 - 113	
HCUBE27	466	574097	1 - 407	15 - 421	AA381762, M78032, AA381747, AW339422, AA470490, AI198718, AI590404, AW404225, AI045108, H62550, AA297207, H54511, N41775, AI915081, F35684, AW440368, AW247389, R69819, AA856866, AA501807, AIJ306717, AI309943, AW440568, N67313, AA565911, AA678932, AW081610, AJ538236, AI824476, T94988, T74524, N84161, AA714073, AA665532, H12857, AI823705, AI925065, AI025930, C06004, AW088631, N68449, AW238253, AI889995, AI271762, AA745351, AA513851, AA678616, AW078821, AI962030, AA018923, AA012829, AW088656, AI653776, AA126814, T07225, AW019964, AA749152, AA496309, AA644223, AW338860, AA581498, AI620992, AA468494, AA552586, AW390284, AA630122, AI347665, AA846923, AI457389, AI568659, AA701131, AI417586, T40629, AA297662, H01852, AW082104, R93919, AL041924, AW080118, AI648514, AW084173, AJ472736, T52822, AA579399, H40478, AI561241, AW021007, AW086291, AA309362, AI860535, AA584756, AA331158, AI053934, AA601653, H07953, AA744048, AI955360, AA745383, AL120976, F08866, AI053597, AI889579, H25938, AW328446, AI277373, AI278440, N70449, AA599080, T54144, AA368359, AI598056, C06210, T40799, AI445338, AW265279, AA878492, AA434078, M77908, C15504, AI278972, AI446336, AA189097, AI049630, AA586433, AI079809, AA218631, AW242031, AW408767, T92394, AA339923, AA744094, AA654038, AP000065, AL049576, AC004655, AL034418, AC002429, AC005037, AL109984, AL031848, AC002288, AC007055, Z99716, AL049776, Z93017, AC004882, U62293, AC006449, Z84480, AC006539, AL096701, AC005562, AC006238, AC005057, AL031311, AC006211, AC004000, AC002302, AC009516, AI031680, AP000252, AF111168, AL135744, AP000689, AC005884, AC007676, AC007993, AC004966, AC004644, AP000555, AP000131, AP000209, Z83820, U91321, AP000212, AP000134, AC005871, AL109628, AC005519, AP000208, AP000130, AP000248, AC007227, AC005488, AL049757, AC006101, AP000247, AL139054, AC006578, AC007878, Z69733, AC005261, AL022721, U91323, AC003013, Z83826, AC004263, AL035249, AL121658, AB003151, AC005726, AF001552, AC003013, Z83826, AC004263, AL035249, AL121658, AC006480, AC005233, AC004491, AC006121, AL031597, AL031846, AC005071, AL031767, AP000213, AC000025, AC022165, AF146367, AL031597, AL031846, AL022323, AL133485, AL049569, AC006965, AC004855, AC007376, AC005015, AC005015, AC004448, Z84469, U78027, AP000135, AL109952, AL031282, L35533, AP000552, AC004031, AC004662, AL035409, Z97630, AC005520, AC005399, AC004876, AL096791, AC006581, AP000557, AC006285, AL121653, AJ003147, AL080243, AC002425, AC005800, AL049653, AC005060, AC004895, AC004253, AC006160, AC005081, AC004125, AC004859, AC002375, AC004520, AF111167, AL031291, AC008115, AC005180, AC005730, AC006515, AL024498, Z84487, AL035422, AF124523, AC004887, D83253, Z93241, AP000031, U95740, AC004409, AP000356, AC005332, AC000353, AP000556, AL049795, AF109907, AC004878, AL133448, AF176915, L78810, AC003665, AL031657,

HCUBE55	467	574203	1 - 376	15 - 390	AL022163, AL021391, AC004522, AL109758, AC005412, AC004216, AP000008, AL035587, AC006120, AC006014, AL021978, AC005911, AC004150, AL049829, AL031005, AC004019, AP000967, AF129756, AC005291, AC006958, AP000704, AC003950, AP000688, AC002527, AC004999, U85195, AC004814, AF165926, AC006487, AC006077, AC004817, AC004858, AC003029, AC005295, AC007308, AL034420, AC002036, AC006026, AJ246003, AL049631, AC005089, AC016025, AC005088, Z99496, AL022315, AL031781, AC003109, AC000052, AL022396, AP000044, AC004382, AC006001, AC006511, AL022318, AP000345, AC004983, U80017, AF200465, AC005280, AE000658, AC004771, AC007773, Z83844, AP000215, AL031733, AL035684, AC005529, AL035071, AC006396, AC005913, U95742, Z98950, AL022320, AC004963, AC005011, AL136295, AL031659, AC005005, AC007533, AC002554, AC005874, AF134471, AC005899, AL050307, AC007066, AC007277, AC007546, AL034451, AL049872, AL031427, AP000697, AL035086, and AC002511.
HCUBG79	468	781681	1 - 177	15 - 191	
HCUBG83	469	537501	1 - 206	15 - 220	
HCUBH45	470	575720	1 - 121	15 - 135	
HCUBI13	471	862161	1 - 375	15 - 389	H93071, H50664, AW086257, AI754336, AA634786, AW021583, AI939442, AL138396, AW008317, T91187, T40617, AI307201, AI192631, AI804138, U91321, U52112, Z29373, AC005229, AP000337, AB012286, AL109801, AC004966, AC005089, AC006449, AC006049, AP000215, AC002553, AC006582, AB023049, AP000961, AC009069, AL031577, AL035703, AC006312, AC007057, U76377, AC004485, AC006253, AP000513, AC009743, AC012599, AL022238, AC005081, AL049539, AF095725, AC005231, Z68870, AI021394, AC003012, AC004864, AL049557, AC004099, AC006237, AC007151, Z82194, AI229042, AC004841, AL049776, AL031427, AC004520, AL035494, U80017, AC006441, AC005274, AC004913, AL033518, AC005695, AP000079, AL005049, AL117340, AC005067, AL023575, AC004770, AL023807, AC005145, AL122126, Z94277, AC004974, AC005335, AL031681, AC007537, AC004887, AC005790, AL049576, AC000353, Z94721, AC008928, AC011604, AL080243, AL031665, AE000658, AC031447, AP000354, AC005519, U85195, AC004257, AC005799, AC004820, AL031447, AP000354, AC005827, L44140, AC005780, AC005971, AP000959, AL132987, AC005255, AL079295, AC004253, X87344, AC004890, AC000069, AL049777, AL035683, and AL023576.
HCUBI14	472	574199	1 - 99	15 - 113	
HCUBI15	473	881192	1 - 338	15 - 352	
HCUBI38	474	792415	1 - 533	15 - 547	
HCUBI43	475	685512	1 - 115	15 - 129	AJ246003, and AL121658.
HCUBI49	476	961748	1 - 144	15 - 158	
HCUBI74	477	574235	1 - 388	15 - 402	

HCUBJI1	478	967484	1 - 314	15 - 328	D61636.
HCUBJ42	479	574265	1 - 312	15 - 326	
HCUBK01	480	917257	1 - 409	15 - 423	AI279417, AA558404, T05617, AI049955, AI568659, AI284536, AI251563, AA491423, AA610255, AI792695, AW302832, AI024511, AI792856, AL040816, AA629759, AA078384, AA635433, AW271095, AA381990, AL135377, AI948984, AI733946, AL039042, AL039041, AA775205, AI948959, AI733930, AA652910, H45698, AA838192, AA101744, AI792842, AI281622, AL043878, AI252190, T52745, AA557911, AA743968, AI815583, AW407632, AI732807, AI252141, AW328202, AI816537, AI280574, AL121287, AW337805, AI358712, AW275432, F01666, AI792746, AA847499, AI753672, AA642823, AW265155, AL048479, AA326452, AA324088, AI282629, AI798313, AL042373, AI245693, AI129421, AA326330, AA582746, AA683069, AW151018, AL118925, AA564925, AA303770, W24312, AL038977, AA460924, AI049845, AA772873, AI798041, AA579399, AI114657, AA536040, AI249365, AL096791, AC007025, Z82244, AC006312, AL049699, AC004185, Z97634, AC006026, AC007537, AC009247, AC007639, U80930, AC005670, AF157623, AL034402, Z98743, AC005725, AC005365, AC004668, AF006752, AC005338, AL021366, AC004963, AL117344, AC005072, AF024534, AC004031, AL050318, AC004254, AC005081, AL080317, Z97832, AL035495, AC005751, AC008123, AC002316, AC005086, AC004099, AC006012, AC004799, AP000109, AP000041, AL034549, AC000039, L47234, AL022238, AC007385, AC005952, AC006441, AL050332, AL049650, AL135744, Z83838, Z83826, AC006965, AC011331, AP000008, X62358, AL023807, AC002295, Z98747, AC002366, AF051976, AC004694, AC007773, AP000153, AP000704, M89651, AC000082, AC005300, AL031737, AL008712, Z97053, AL139054, AL031904, AC009294, AC008044, AC005587, Z99496, AC004531, AC007130, AC005661, AC003037, AL024498, AL023879, AC004778, AC007566, L81612, AC005037, D84394, AL022311, AF091512, AL132987, AC004663, AC006047, AL008582, Z83843, AC005736, AC005164, AL096803, AC000088, AC005088, Z99570, AL109628, AC000394, AP000509, AL008718, AC006236, AC000071, Z95118, AC004656, AF001552, AC005546, AC005695, Z84484, Z99716, AP000504, AL022326, AC004961, AC004686, AL080250, AP000347, AJ003147, Z95115, AC004013, AC006930, AJ010770, AL121754, AC004881, AC009363, Y12853, AC004097, AC005005, AC004922, AL049758, AC002544, AC005609, AC005666, AF130342, AC005753, AL117355, AC007565, AC005519, AL034420, AL049776, AC002545, AC005015, AC004921, AF129756, AC005632, AD000864, AC004851, AC005099, AC004750, AP000288, AC005280, AC005487, AL021578, AL031735, AC000353, AL049631, AL022717, AC003107, AC006597, Z82194, AL079304, AC009784, AC007201, U73643, AL031003, AL031387, AC003682, AL035461, AC007625, AC007899, AL024509, AC005041, AC007536, AL035462, AC005681, AL035460, AL021398, Z49208, AC005003, AC003012, U52111, AC020663, AC006946, AC005484, AC004583, AL109963, Z83844, AL031447, AF001550, AJ229043, AL009179, AL109798, AP000501, AL096757, AL078638,

HCUBK36	481		1 - 492	15 - 506	AB020877, AF087143, AL078581, AC006487, AC004132, AC007151, AC005568, AL035443, AL049792, AC006088, AC005011, Z84496, AC005225, AL031728, AL022718, AL021391, AL080239, AC007221, AC004771, AL035587, Z97352, Z68873, AC006237, AJ236701, AC007546, and AF134726.
HCUBK39	482	850132	1 - 491	15 - 505	
HCUBK46	483	577234	1 - 368	15 - 382	
HCUBK49	484	574120 574122	1 - 365	15 - 379	AI200051, AA714595, AW086257, AW406755, AA317170, AA610438, AA342256, AL118947, F32705, AW408063, AW069807, AI358229, AI345518, AA526193, AL037291, AA663306, AI281881, AA557879, AA652057, AA649642, AA569468, T40617, AI499094, AA503168, AI963095, AL118911, AI049634, AA670126, AA743072, AA095511, T63597, N27353, AW088058, AA125788, AW265393, AW196798, AW023389, AI150670, AW406447, AI281903, AL037945, AI061296, AI355206, AL041368, H58472, W07032, AW406659, AL138242, W07122, AL134703, F29989, AI365988, AL133862, AI865804, AA491814, AA747889, AW339687, AA516225, AI038990, AI635272, AA932099, AW302909, AW008317, AA228420, T59509, H86301, AI446474, AL042420, AA318652, AI912322, AW407340, H86264, AI708009, AL119123, AI352078, AA720746, AW316969, AI796627, AW439558, AL048925, AA640979, AL036523, AI633007, AA838479, AI679713, AJ801482, AA947370, AA349854, AA838477, AA121919, AA878495, AA658235, AA804993, R44592, Z97198, AP000503, AF134726, AC005067, AP000275, AC004614, AP000037, AP000105, Z94721, Z84814, AC007130, AC007690, Z32772, AL008721, AC020663, AL031662, AC000086, AP000701, AL022098, AC004841, AB020869, AP000017, AC005365, AC006001, L78810, AC007051, AC007919, AC000070, Z93016, AP000884, AC005754, AC004477, AP000962, AC002045, AC005593, AC007395, AL096766, AC002349, AC004887, AC004891, U91325, AC004534, AL132712, AB003151, AP000688, AC004760, AP000159, AP000018, AC006111, AC004799, AC004820, AL031587, AL035450, AL096701, AC007240, AL080317, AC004991, AC005081, AC004814, AC007024, Z73358, U91319, AC003009, AC003005, AL035535, AL109758, AC006064, AC005329, AC005887, AL034402, AC005880, Z95152, AC002365, AC010175, AC005829, AC007970, U73638, AC004996, AC005164, AC005701, AL021395, AL078639, AC005376, AL022158, AP000349, AL031769, AL049759, AF045555, U73645, AL121655, AC002072, Z86090, AL035604, AC005940, AL031132, AL021154, AC003963, AC006254, AC008122, AC007001, AC004061, AP000557, Z98048, AC007444, AC004263, AC004755, U11309, AC006600, AL023802, Z74617, AC000125, AC007536, AC004650, AC005699, AC003688, AF129756, AP000517, AP000692, AL031132, AL049633, AC012380, AL035420, AL023801, AF067846, AC007695, AL096774, AC004008, AL004008, AL035420, AL031291, AC007535, AC007537, AL022329, AC006322, AL008731, AC005019, AF207550, AC004896, AL022337, AC006275, Z98749, AP000350, AF001549, AF207550, Z85986,

					AL022323, AB001523, AC005520, AL078581, AC004675, AJ003147, AB023054, AC004186, AC007245, Z83826, U86136, AC003101, AL031447, AL009181, AC005666, AC005345, AL135783, AL049636, Z98051, AF088219, Z93241, AL034419, AC005778, AC005777, AL022578, AC007237, AC005264, AB011147, AL023284, AC009516, AC005280, AC004408, AC004232, AC002117, AL133382, AL049635, Z86061, Z97181, AC005751, AC007387, AL109613, AL031257, AF095725, AC005003, AC004913, Z93783, AC007243, AL035587, AC004797, AL021307, AC004188, AC007327, AC000387, Z99291, AC005157, AC009721, AC006039, AL049780, AC005274, AC007993, Z97352, AL034420, AJ005683, AC005064, AC004081, AL023582, AL117352, Z93020, AC009501, AC005411, AB014086, U78308, D86998, Z69719, AC004467, AC008928, AL049591, AC002464, AC005785, AC004963, AL035410, Z68344, AC006079, AC004973, AC004222, and AL109827.
HCUBL12	485	739021	1-198	15-212	
HCUBL65	486	574201	1-297	15-311	
HCUBM86	487	577291	1-332	15-346	AL117328.
HCUBN07	488	953879	1-179	15-193	AA662395.
HCUBN21	489	577287	1-331	15-345	
HCUBN38	490	971421	1-172	15-186	AW089099, and AC004227.
HCUBN66	491	664536	1-135	15-149	
HCUBO08	492	959928	1-305	15-319	AC006388.
HCUBP69	493	526757	1-133	15-147	AL031683.
HCUBP89	494	850016	1-347	15-361	
HCUBQ76	495	575352	1-269	15-283	AI061235.
HCUBQ85	496	967074	1-327	15-341	AW328178, AW328000, AA501777, AA503770, AA749428, AC004854, AC005536, AP000547, and AC004621.
HCUBS58	497	522378	1-295	15-309	AA342137, F19690, AA069872, T78945, AA347735, R68248, AI453160, AI564294, AA632765, AI471467, AA181917, W01359, AC004983, AC007225, D87675, AC004851, AP000090, AF196969, AC004967, Z98941, AL031003, AF222685, AC005233, AC002126, AC006241, AC007382, AF130248, AC007193, AL035086, U07563, AC004778, AC000070, AL096702, AF075007, AC005529, AL080286, AP000689, AC000688, AC000025, Z83846, AP000354, AB003151, AL109758, AC005695, AL034554, Z97053, L44140, AP001052, AC002477, AC005962, AC004168, AL117337, AL021155, AC005226, AL031681, AL031255, U91321, AL133163, AC004228, and AL035460.
HCUBS72	498	577286	1-431	15-445	AI355281, AI978712, AA664521, AI076616, F31796, F31799, F37223, AA310117, AA077302, AW166611, AW131457, AL038936, F31465, AA133650, AI357823, AA448858, AA658846, AW408161, AI926366, AA482896, AL048544, AA133651, AW380074, AL079466, H21449, AI752978, H42075, AA482768, AI139971, C05928, AI860423, AL119295, AI701959, AW167372,

HCUBT02	499	920682	1 - 306	15 - 320	N27353, AA670108, AA338522, AA342901, AA576336, AA736963, AA347109, AA569206, AL037285, AI186233, AA354785, AI783494, AA342256, AP000555, AC015853, AF205588, AC004999, AL034423, AC003075, AC005031, AC002036, Z99496, U80017, AC016027, AC016830, AC005920, AF134726, AC008984, AL078581, AC012085, AC005253, AC005519, Z98051, AC005385, AC004895, AC005828, AC003002, AC006139, AL121652, AL035400, AP000503, AC005544, AC006101, AL121578, AF140764, AC000041, AC004016, AC000025, AL021917, AL035397, AC004686, AB026898, AC006449, Z85986, AP000350, AP000514, AC002316, AL031295, AC006121, AC007533, AC006372, AC004655, AC007387, AL021453, AL109967, AL133304, AC007637, AC006430, AC001066, L81893, AL078472, AC007096, AC006077, Z83826, AC005011, AL049829, AC007151, AP000245, AC016831, AC004254, AC005237, Z99570, AL031662, AC004132, AL035587, AC005488, AC007666, AC007285, AC002037, AC003973, AC007707, AL008730, AC005200, AL022328, AC007050, AL009174, AP000704, AC002059, AC006992, AC007313, AC005081, AC007023, AC000105, I59642, AF106918, AC004779, AC005346, AC000135, Z98044, AL009179, AL035684, AP000031, AP000207, AP000213, AC004996, AP000135, AC005772, AC005057, AC004970, AC006285, AL021579, AL121877, AC004019, AC007221, AC005562, AC004383, AC003665, AC006432, Z93017, AL022329, AL023656, AC005839, AC004595, AL021578, AL133163, AC000353, U52111, Z94161, AC006255, AC007455, AC004595, AC004791, AP000255, AL035424, AP000129, AC007688, AC005280, U95742, AL023279, AC005954, AC005520, AC005018, AL031864, AC007216, AC007685, AC007245, K03555, AP000008, AB000882, AL031311, AC002045, AP000962, AC004933, AC009399, and AL008719.
HCUBT94	500	574239	1 - 528	15 - 542	AI189587, AA705559, H47182, H47091, and AF147424.
HCUBV04	501	615547	1 - 372	15 - 386	AW026750, AA579906, and AL035090.
HCUBX57	502	506518	1 - 346	15 - 360	AW084004, AA364082, AA351808, AW089950, AA533660, AC005920, AF196969, AC005031, AC000025, Z83844, AC008101, AF047825, U80017, AC005520, AC004805, AC004851, AC006276, AL022238, AL050140, AC005695, AC005971, AL049869, AC006511, AC005214, Z75891, Z82180, AC005231, AL049780, AB029020, AF196779, AL139054, AC004263, AC005696, AC002319, AC007421, AC004796, AF053356, U95742, AF117829, AC005088, AC002477, AL050350, AC005015, AC005702, Z95114, AL117337, AC005409, AC004084, AC007216, AF001548, AC006443, AC004797, I34294, AL133245, Z94160, AC005519, AP000514, AC002301, AL034423, AL121825, AC002350, AL133245, Z94160, AC005519, AP000514, AC002301, AC002316, AC006139, AC005011, AC002430, AC003950, and AC004381.
HCUBZ57	503	529702	1 - 329	15 - 343	
HCUBZ86	504	694720	1 - 247	15 - 261	
HCUBZ88	505	574096	1 - 297	15 - 311	
HCUBZ96	506	506585	1 - 293	15 - 307	AI341867, and AA608765.

HCUCB20	507	574189	1 - 415	15 - 429	AL031295, AC002316, and AC005696.
HCUCC20	508	573901	1 - 347	15 - 361	AA988600, AA515224, AI282479, F13749, AI870444, AA747472, AW167909, AW438643, W21218, AW090629, AI962050, AW023975, AL135643, AA659083, AW419262, AI751162, AW162288, AI917271, AI307201, AI431303, AI688846, AI284640, AI471481, AA657741, AW029038, AI696793, AI345654, F36273, AW166815, AW193265, AA527954, AI350211, AL041854, AI904894, AL138421, AW193432, AI918421, AI653886, AC004821, S77605, AC006312, AL008715, AF165926, AC006960, AC005412, AL008635, AC004491, AC002449, AC009225, AL031670, AC008009, AC004985, AC005874, AF134471, AC004382, AC004675, AF088219, AC004797, AC005220, AL109801, AC003681, AF205588, AC020663, AC006111, AL035587, AC006992, AC007676, AL034376, AC005696, AC005695, AL035086, AF003626, AL022313, AL121655, AP000347, AL035460, AC009248, AC003110, AL035413, Z82097, AL031584, AC004972, U62292, AP000346, U82671, AL096791, AJ251973, AC005034, AC004685, AC007878, AC007292, AC004690, AC005821, Z93930, AC004834, AP000240, AC004263, U52112, AF196971, AC005594, AL022322, AC006543, AC005776, U63721, AC006241, AL136295, Z97054, AC004098, Z82244, AC004991, AC004084, AF190465, AC000353, AC004103, AE000662, AP000553, Z83844, AC004837, Z84477, AC003047, AC007277, AC006101, AC006571, M94081, AL008729, AL033527, AC006544, AF045555, AC002369, AC005255, AC002301, AP000289, AL080276, AL096677, AL021391, AP000501, AC005041, AC005482, AC006552, AP000042, AP000504, AP000110, AC006511, AC007666, AC008984, AF155238, AC005037, Z97056, AR036572, U91328, AC002316, Z94160, AL121603, AL117351, AL079295, AL078471, AC004655, AC005048, AC005632, AC007536, AL049761, Z99570, AL008583, AL022237, AC007731, AF129756, AP000339, AP000518, AC005500, S42659, AC006480, AC007151, Z95113, AC002543, AC002470, AB026899, AP000217, AC006251, AC005702, Z70288, AC005514, AL132987, AC004678, AL022334, U02054, AC005664, AC002289, AC004841, AC005619, AC004126, AC008064, AC007993, AF037338, AC006538, Z97183, Z85986, AL035403, AC002326, AC005553, AL022476, AC005377, AL031587, Z99129, Z82245, AC007387, AC007051, AC007546, AC004500, AL109758, AL031681, AC005071, Z68273, U95742, AC007308, AP000355, Z81370, AC005015, AL009031, AC006547, L78833, AC004859, AL022323, AC007919, AC005003, M87923, AC005094, AL132712, AL031281, AC004883, Z69890, AL096701, AL049830, AC007216, AC003065, AC003007, Z84469, U89337, AC003688, AL034417, AC000075, AC005033, AL109613, U73168, AC004933, AL049869, AC004216, AC007055, AL031005, AC000075, AC002365, AL031735, AC006276, AC006064, AL034384, AL049540, AL009181, AP000269, S70707, Z84466, AC002365, AL031735, AC004000, AC004760, AC004447, AP000500, AL020997, AL109963, AC006276, AC006064, AL034384, AL049540, and AF134726.
HCUCC78	509	577129	1 - 291	15 - 305	AL022318.
HCUCC96	510	796530	1 - 229	15 - 243	AW005018.

HCUCD26	511	574098	1 - 226	15 - 240	AB020868.
HCUCD82	512	780047	1 - 329	15 - 343	R22017, AC004787, and AF165926.
HCUCG21	513	671210	1 - 463	15 - 477	
HCUCI43	514	715488	1 - 203	15 - 217	D60319, D60589, D60408, D61144, D60853, AF119569, AF091501, and AF087651.
HCUCJ90	515	967501	1 - 65	15 - 79	AC007032.
HCUCT08	516	959910	1 - 531	15 - 545	
HCUCT48	517	720905	1 - 245	15 - 259	
HCUCV13	518	574121	1 - 310	15 - 324	
HCUCV20	519	694398	1 - 250	15 - 264	
HCUDA38	520	862089	1 - 344	15 - 358	
HCUDB13	521	578712	1 - 323	15 - 337	AA936845, N73060, N73203, R14903, AA988600, AA595504, M78131, AA774006, W68328, H15294, AI049504, AA364863, AW131417, AA077619, AA477517, H53101, AA665304, AA457230, N57709, AL037006, R38509, H58786, AI791561, AA173334, AA525407, H10454, R48980, AA636102, AI479068, AA225548, AA321595, N22153, AW192518, R82835, AW073498, H09639, AI929410, AI753672, AW019964, AI750950, AA693806, AA629412, AA479337, AI273675, AA296958, C14599, AI268564, AA706094, AA831801, C14880, AI138918, AA741020, AI367222, AA832016, AI371804, AI60535, AW276933, H63220, AW103407, R83708, AC009399, AP000128, AP000206, AP000245, AC005529, AL008715, AL034420, AC000025, AC005527, AC009247, AC004531, AC002407, AP000688, AC011331, AC002990, AC004466, AL008718, AC004540, AL031803, AC002381, AC006077, AC005351, AC005901, AC005822, Y11107, AC000086, AL133275, AC004910, AC006042, AC007919, AC006417, AF006487, AC004383, Z99716, AF111168, AL035587, AC005972, AL031577, AC006275, AC002301, AC002351, Z97054, AC007055, AC007537, AC002120, AC005291, AL031428, AF027974, AC000353, AC002563, AL133448, AL034419, Z95331, U72845, AC004955, AL031255, AC005088, AC004587, AC007540, AP000116, AC005231, AC006388, AC000066, AC004000, AC005049, AC005480, AL035415, AC002073, AF134726, AC009509, AC005585, AL021154, AL118516, AC004851, AC007201, AC005071, AL096775, AC005740, AC005921, AP000555, AC004983, AC007227, AL049766, AC004139, AL049830, AC007226, AC004908, Z98752, AC007536, AL121915, AC004036, AC005037, AC005578, AF092925, AC006059, AC005486, Z98941, AC007559, AJ010770, AC005064, AL078581, AC008249, AC007214, AC002072, Z82178, AC007028, AL109952, AL099181, AC005971, AC010168, AL033527, AC004054, AL049699, AC005796, AL109952, AL009181, AP000252, AL024498, AC003962, AF141308, AC006449, AL034418, AD000812, U91324, AP000252, Z84474, AC005521, AC005479, AL033524, U91318, AC008044, AL021578, AC004694, AC007899, AC004125, AC005399, AL121825, Z74739, AC006344, AL031685, AC005005, AL035422, AL133249, AL023581, AC006071, AC004019, AC005821, AC000026, AC006538, AL050318, AC006365, AC004817, U95740, AP000212, AP000134, AL109984,

Clone	SEQ ID	cDNA Clone ID			Accession Numbers
HCUDC45	522	576566	1 - 379	15 - 393	U63721, AC003036, U69639, AC005520, AP000692, AL049869, AC004904, AC003670, L78810, AL139054, AC009721, AC005082, AC004017, AC004797, AC004084, AC004491, L13712, U93305, Z68281, AC005778, D84394, AL133353, AC004678, AL049829, AC005600, AC007542, AC006226, and U85195.
HCUDC79	523	576577	1 - 154	15 - 168	AC007324, AC008079, AC008101, and AC016830.
HCUDD19	524	959706	1 - 1796	15 - 1810	AI184562, AW248599, AW051528, AA447350, AI740715, AW316672, AW316654, AI952004, AA977191, AW363318, AA703205, AA149973, AA135413, AI799559, AA459866, AI023370, AW264927, AW264916, N93625, AW297503, AI192819, W68805, AA402761, N53321, AI207204, AI809102, AA804623, AW057780, W68607, H80704, AA398493, H80394, H14357, AI581914, H51962, AI873736, AA300679, AI689515, T33180, I80494, AA555067, AA764994, H68164, H68165, AI807729, AI693622, AI273514, AI932996, AI932990, H80705, N48174, R92093, AI342079, AA903178, AL037469, D61862, H81412, AA460510, W25416, R92092, T24613, AA280237, AI493508, N74148, AA281536, AI525850, C20784, AW438613, AA923003, AI094325, and AB002330.
HCUDD43	525	850103	1 - 263	15 - 277	AI349874, T39598, AA581903, AA630352, AI890928, AW023511, AI890570, AI859251, AA484148, AA702023, AA309460, AI334435, AW074398, AI561335, AI110770, AA226364, AW193546, AA342901, AI120502, AI266576, AI536555, AA715270, AI679706, AI612152, AI679132, AI287651, AL079683, AI446464, T63104, AI252114, AA177061, AW270270, AI792903, AA916039, AW162489, AI734002, AI358343, AI148277, AI279165, AW074207, AW338086, AI061227, AA523688, AL120687, AA587256, H60143, AI064864, AI252085, AA451612, AL138265, AW303876, AA348311, N66776, W47480, N64437, R44592, AI792864, AI733957, AL119984, AI053672, AI471481, AA744110, AA441788, AI334443, AL040130, AA594215, AA553465, AA491814, AA481363, AA652057, AA481375, AA649642, AI742771, AA386111, AI246796, AI674873, AI287451, AI274431, AA501722, AI610159, AL048925, AW341892, F19156, F36273, AI830390, AL041382, AI284640, AA483034, AI613261, AA125788, AW327360, AL040547, AI493634, AW172727, AW265009, AL137954, AA515938, AA578141, F03097, H92005, W45336, F35113, AI110760, AL119691, AA559290, AL049831, AL049697, AB020871, AP000193, AL109981, AL023281, AC005565, AP000117, AC004983, AC004021, AC006126, AL031293, AC005274, AL023575, AC004019, AP000049, AC004475, AC005089, AP000311, AC004067, AC007065, AL080243, AC005158, AC005837, Z83826, AC007666, AL096701, AC005412, AL096829, AL049869, AL049757, AC002287, AC005483, AP000334, AC002522, AC004941, AC004616, AL049869, AC002429, Z81369, AC000052, AL031430, AC005104, AL035684, AC000095, AP000173, AC002429, L14752, AF111169, AP000023, Z98885, AC005037, AC005184, AF072711, AL079295, L14752, AP000018, AP000160, AC004924, AC005159, AC009227, AL035249, Z68871, AL078472, AP000018, AF047825, AL023807, AC006387, AC007934, AC005793, AC006482, AC005231, AC004813,

HCUDD57	526	734883	1 - 373	15 - 387	AL049795, AC006137, AL021707, AL031983, M86181, AC007312, AL022722, AL121603, AL096768, U95743, AC002472, AC004987, AC000021, AC000428, AC006079, AC004050, AC004241, AL049575, AL021154, AL031255, X06123, AL022238, AC006556, AC006273, AC007565, AF020503, AP000555, AC004559, AC005899, AC003003, AI239321, AC006205, AC005324, AP000967, M26434, AL136504, AF164343, AC005330, AC004534, AL079340, AC002519, AL021918, AC004817, AC004447, AL031296, AC007242, AL031256, AL049830, U89335, AP000692, AL031760, AC005256, AC004755, AL031224, AC002485, AC006023, AC006317, AC002368, AC005924, AC004851, AC007707, AC007463, AL031686, AL050318, AP000043, AF109907, AL133396, AC004232, AC002301, AJ003147, AP000961, AC006071, AC005512, AL136018, AP000338, Z94721, AC006315, AC005913, AC002492, AC003080, AC007676, AC004383, AP000047, Z82201, AC004695, AC005822, AF111168, AF165175, AL034420, AL110502, U66061, AL031662, AC004776, AC007564, AP000216, AP000352, AB002059, AL035420, AC002470, AC000003, AC005666, AC007664, AC007214, Z82216, AL035073, X61109, AC005821, AL022328, AC005919, AC008179, AC004763, AC007537, AC004893, AC005838, Z93024, AC007076, U95742, AC007216, AL034554, U78104, Z77249, AF088219, AC008984, AL008708, AC007161, AL023755, AL121767, AC002070, AC005503, AC004650, AC000372, AC005694, AP000065, AP000115, AC006070, U58047, AC005994, AC004933, L24094, AL132641, AC018633, and AL022163.
HCUDE23	527	953868	1 - 356	15 - 370	R91783, AW449624, AI792255, AA632429, AA632442, and AA573692.
HCUDE38	528	850076	1 - 324	15 - 338	R62551, and AI174377. AA551398, AI690497, AL031577, AC005971, AF109907, AC006077, AC007773, AL031666, AL049843, AP000208, AP000130, U91321, AF196779, AC002300, AC007880, and AL034417.
HCUDE47	529	861150	1 - 789	15 - 803	AW139719, AI911432, AI288208, H39195, R42796, AI093947, H40911, H23589, H46892, R42704, H40952, II46310, HS2787, II52820, H41504, AW075323, and AW071240.
HCUDF26	530	676949	1 - 436	15 - 450	
HCUDF33	531	577224	1 - 295	15 - 309	R02571, AI032037, AA679303, AA642557, AA345400, AA551532, N53352, N58999, AA985662, F18098, AA007330, AA767276, AA703457, AL046094, N64205, AI479093, AL009174, AC006238, AC004662, AC006530, AC004491, AC005781, AL049780, AC006597, AL049911, AC005856, AL109628, Y14768, AC004408, AP000505, AL030996, AC004003, AC005874, AF134471, AC002351, AC002375, AC004933, AF117829, AC004648, AL135959, AC000105, AL078611, AC005102, AC004232, AF129756, AL117344, AL031577, AC002302, AF001549, AC002301, Z99774, AL031733, Z15025, Z98036, AC005105, AL049759, AC006961, AC005899, AC005663, AC004821, U91322, Z79997, AP000338, AC005500, AC002314, Z97200, AJ003147, AC003103, AC004000, AL008718, AC005740, AL078460, AL109758, AL035088, AC007276, AL022330, AF126403, AC008372, AC004990, AC002378, AC007227, and AL035089.

| HCUDF90 | 532 | 958449 | 1 - 459 | 15 - 473 | AA747777, H71827, AA378822, AA378821, AA573020, AA810269, AA503154, AA451612, AA095511, AA837058, AA644538, AA533725, AA985455, H81785, T29180, T52733, AA593247, F00290, T53607, F31204, AA493708, R31948, T69435, AA176717, N22424, AA861959, AA804962, AA112778, AA780797, AW05049X, A1446464, AA564264, AW406755, AA148489, A1365988, AA192695, A1954260, A1358229, AA535661, AA143516, AA598494, AA578349, AA357937, AW088984, AW339687, AA503473, AA908349, A1635272, AA401022, T51102, A1499938, T72601, A1305766, A1920877, A1624698, AA059154, A1.133723, A1278997, AI744188, T55213, AA640034, F37286, AA657918, AI827234, AA494163, AA365694, AA805230, AA218645, AA911519, AA169194, H12334, R77608, AA669840, AA371533, C19058, W38648, T06647, R81240, R64515, AA515128, A1064864, AW338086, H71429, R45369, AA098922, H53522, AA533450, F34795, AA121333, AA364429, AA176114, N54934, AC004605, AC004964, AC012599, AC003684, AC005696, AC007845, AC016025, AC005069, AF117829, AC005736, AB003151, AP000688, AC006277, AL078477, AP000689, AC004858, AF109907, AF069291, AR000118, AJ229042, AC016027, AC007751, AC016830, AC020663, AL031577, AL135744, AJ239222, Z86061, AC016026, AC004854, U96629, AC004675, AP000556, AP000557, AP000552, AJ246003, AL031668, AF038458, AL133245, AC005740, AC006374, AL009174, AF131217, AF001549, AF088219, AC004216, AC005839, AL008582, AL023575, AL121658, AC002349, AL031905, AL132718, AF010317, AP000114, AP000046, AC005409, AC004019, AP000473, AF124523, Z68322, U95743, AL022726, AL121603, AC005031, U95742, AC018633, ACQ02133, AL020997, AC008372, AC005730, AC004765, AL035587, AJ238481, AC007510, AC005412, AB020858, AC005191, AC005775, AC007324, AC006597, X69953, AC006001, AB023049, AC005373, AL117330, U80017, AC005399, AC004596, AC006251, AL034420, AP000432, AC007773, AL022394, AC006273, AC005242, AC003030, AP000356, AC005666, AC002316, U82696, AC000353, AC006958, AF165176, AF064863, AL034379, AC006130, AP000705, AC000379, AL023879, AC000052, AC001164, AC006285, U91326, AC005772, AC004184, AC006525, AB020867, AF064861, D15054, AC007050, AC005728, AC005280, AF139813, U73634, AC006465, AC006312, AL022323, AC004139, AL035089, AC004770, AC004186, AL109799, AC004228, AC002070, AC002312, AC007314, AL031770, AC003681, AC004859, AC002051, AC002310, AL080243, AL031283, AC004894, AC005231, AC007666, AL031255, AJ011930, AL022320, AC007686, AC008018, AR036572, U91328, AL031281, D14034, AC005837, AC008033, AC006948, AL021808, AC002544, AL049760, AL032821, Z84466, AC005841, AL109654, AL049757, AC004492, AC006441, AC005067, U07562, AC006208, AC009516, U63312, AL049832, AL133448, AF002993, D87675, U47924, Z83840, Z98950, AP000502, AC005379, AL035668, AC006430, AJ003147, AL022328, AC004975, AC006121, Z84477, AC002369, AC004531, AC007099, Z83820, AL031670, AL035460, Z83844, AC004470, AC005082, AC005261, AC004671, Z85986, AC005913, AC007227, AL033527, AL078603, AC002066, AC005906, AL035400, AP000352, AC003682, |

HCUDH64	533	717894	1 - 392	15 - 406	AC005104, AF035397, AL049696, AC004878, AC005157, AP000460, AC006449, AC005529, AC004386, AL021937, AC005901, AC006042, AL096712, AF003627, AB023054, and AL035458.
HCUDH84	534	713524	1 - 367	15 - 381	AB022698, AI007628, and AB022699.
HCUDJ91	535	861025	1 - 303	15 - 317	
HCUDL94	536	915821	1 - 353	15 - 367	AI623889, AI934811, AI934751, AA687180, and AF053356.
HCUDM23	537	462283	1 - 376	15 - 390	AI003172, W60516, AI051551, AA557325, AA299087, AI149915, T79003, AL041368, AI857261, AA365347, H51054, AA313078, AI499094, AA350859, H64560, AI205126, AA443390, AW276827, AW088616, AI879000, AI350211, AI032878, AW069807, AI719080, AL041412, AA364567, AI469878, AA327572, AW265214, AW193432, AA329192, AA551509, AA381666, AI653515, AI915075, AW277102, AI679639, AI341664, AI193007, AL046696, AI061334, AI204076, AW339568, AI471481, AI359285, AW078495, W04302, AI653434, AL046409, AA365587, AI289067, AA584749, AA340960, AA580662, AW303876, W25284, AI305766, AI686431, AI124660, AI761471, AI421213, AW023672, AI762575, AI678392, R23777, AI914706, H13868, AA847216, AI719644, AA377730, AW074398, AI284640, AI538399, AW193265, AA659083, F31204, AA344959, AA229785, AW264973, AI110770, AI610159, AA593060, AI282907, AA641989, AA507990, AW057699, AI536625, AI284467, AI688846, F28576, AI806850, AA973575, AI569086, AA515128, AI634384, AA071182, AI038279, AW337985, AW419262, AI815000, AI079910, AA679810, F36273, AW261871, AI889781, AI431303, AW130799, AI653886, AI445436, AI890052, AA457639, AI742771, AI814735, AI963786, AI613280, AI963720, AL079645, AI474713, AW338869, AI923140, AI133235, AL138421, AL042856, T10218, AI547286, W28786, AF150222, H64777, T34066, AL047643, AA460367, AW157326, AA128576, AA515435, AA339432, AA359958, AI049634, AW175641, F19258, AI124779, T80500, AA579140, AC004495, AC007151, AL109799, AC004041, AL008634, AC005225, AC006396, AL031770, AC005701, AC005589, AL078580, AL080278, AC004655, AC000075, AC005164, AC005664, AC000097, AC006547, Z94721, Z94056, AP000459, AC008080, AL132642, AC008039, AL031287, AC003086, AC009288, Z95113, AC004100, AC004861, AC007252, AL078584, AC005193, AC007536, AC004985, AC006559, AL050305, AL050097, AL022327, AL035252, AC007501, AJ003147, AC006143, AC002364, L81648, AC004220, AL031012, AP001038, AL021937, L13713, AF015171, AL049565, AL049871, AC005881, L13714, U85195, AC004900, AL049589, AL137191, AC005486, AC007032, AC006323, L76568, U34879, Z93023, AC004875, AC004953, AC006050, AC007263, AE000658, U63312, AC005217, AC004097, Z93241, AL033521, AL033450, AL035461, AC007040, Z82900, AP000468, AL109802, AJ011932, AC013248, AC004756, AL096774, AC002538, AL034373, AL078615, Z82210, AC005375, AC007159, AC006556, AP000556, AC007312, AP000552, Z65382, AP001170, AF033667, AC003667, AF003627, AC005876,

HCUDM66	538	1 - 367	15 - 381	AC003964, Z83827, AL034548, AL031680, AC009223, AL132992, AB017652, Z97053, AL033392, Z69666, Z84479, AC005781, AC004645, AL109801, AC003002, AC007038, Z98744, AC005911, AL031390, Z81369, AP000477, AL035400, AL079295, AC020663, AC007551, AL133371, AC007656, AC006111, AC005390, AF095901, AC005923, AC004946, AC005002, AL031295, AF064865, AC005046, AC004222, U52111, AC006953, AL133353, AC006125, AC004789, AL080242, AF045555, AC005057, AC002119, AC005064, AI031848, AI132708, AC009247, AL021918, AL021368, AL109758, AC004010, AC004859, L13709, L13706, L13707, Z99495, AC007917, U18391, U57009, AF140763, Z98883, AC002306, AC004755, AC004403, AC000127, AC005355, AL034418, AF038458, AC000066, AB020859, AC005231, AC006409, AL031657, AC004990, AC005150, AC007011, AJ010770, AC005274, Z77894, AC000025, AC006006, AC005552, U67230, AC006124, AL096761, AL023799, AB020871, AL022143, AP000855, AC005243, Z98304, AC003037, AC005527, AF042090, Z97054, AC002055, AC004967, AB023343, AB023059, AC004195, AC004076, AL031223, L47234, Z84718, AC005210, AF091512, AL078462, AJ239318, AC004745, AP000509, AL096862, AC006539, AL031666, AC007030, AP000351, AC004662, AL121825, AL049709, AC004027, AL035653, AC002980, AC004051, AL009181, AC006374, AC005822, AC005245, AF196779, AL121823, AF165124, AL031054, AC007364, Z95114, AL080239, and AC005084.
HCUDN09	539	1 - 456	15 - 470	AI090115, AI168683, H99504, AI147670, AA232645, N73285, AA374707, AA380875, AW139567, AA886361, AI735132, and AI679526.
HCUDN14	540	1 - 400	15 - 414	AL021368.
HCUDP19	541	1 - 345	15 - 359	
HCUDP23	542	1 - 444	15 - 458	AC005755, AC005372, AL049780, and AC005081.
HCUDP27	543	1 - 427	15 - 441	AA278441, AI263438, AI870837, AI886871, AW450567, M78087, AA887815, AI700532, W94450, R96854, and R98160.
HCUDP82	544	1 - 337	15 - 351	AI538514.
HCUDQ61	545	1 - 318	15 - 332	AI970020.
HCUDS61	546	1 - 390	15 - 404	U77321, U90095, AC002403, and AJ006345.
HCUDT62	547	1 - 320	15 - 334	AW057640, AA410949, and AI394291.
HCUDT65	548	1 - 1845	15 - 1859	AF039235, AI669256, AW245514, AW245958, AI763048, AW237088, AI093187, AI571378, AW296090, AJ354976, AI680102, AW119180, AI140327, AA934553, AI201269, AA559846, AI991982, AA625161, AI203368, AA040597, AW268813, AW152391, AI243335, AI185996, AA315994, D80898, AI887841, AI902903, AA497000, AI312767, AA373939, AA358918, AA634307, U25751, AI916936, AI700879, AA918570, AA362530, AI671153, AI927665, AI738973, AW087508, AI824923, AI810550, AA359868, AW196382, AI867799, AA738423, D80899, AA954586, C01220, AA489585, F31194, AA361102, AI698559, D20015, W81431, AA928147, AI432152, T27188, AA040679, T19862, and T27189.

HCUDW37	549	859268	1 - 895	15 - 909	Z84480, and AC005011.
HCUDW74	550	576240	1 - 246	15 - 260	
HCUDX05	551	951165	1 - 37	15 - 51	AC002477.
HCUDX14	552	571370	1 - 307	15 - 321	
HCUD225	553	678365	1 - 295	15 - 309	AL031729.
HCUEA58	554	579029	1 - 303	15 - 317	
HCUEA63	555	745183	1 - 354	15 - 368	AI826761, AI355007, AI085719, AW338042, AI149478, AA650365, AI733856, AI742168, AA455483, AA297666, AA226153, AA481887, AI310343, AA410788, AL135108, AI216151, AW316969, AA744018, AI061313, AW156980, AW270771, AI829331, AL045077, AA555229, AA651632, AI053978, AL037910, AI620415, AA679625, AA228778, AA021429, AA737309, AA503468, AI244127, AC003037, AL049776, AL049399, AL022316, AC007388, AC005015, AC005529, AC005274, AC004067, AC004967, AL132777, U63721, L78833, AC007308, AL050318, AL021154, AL022323, Z82206, AL031767, AL031589, AC005280, AP000210, AP000132, AC005231, AC006312, AC016027, AC016830, Z93017, AC005081, AL049869, AF111168, AC000159, AC005409, AC005913, AC007011, AC004755, AC004156, AC002310, AC005291, U62292, AL109628, AC008498, AL035417, AF196779, AC005340, AC009247, AL021808, AC005953, AC005043, AP000557, AC003043, AL133448, AL049692, AC003101, AD001502, AC004491, AL022318, AC005074, AL049539, AL096703, AC005971, Z98742, AP000098, AC006211, Z97056, AL021707, AC002302, AC007227, AC003007, AC005519, AC005722, AP000114, AC005821, AC006663, AL117352, AP000502, AL109952, AC005800, AC004890, AC005881, AC007536, AC005632, AC005209, AL078477, Z93244, AL020995, U91323, AC005330, AL035420, AC003665, AC004000, U91326, AC004983, AC005412, AC004383, AC002544, AC005940, AL022476, AF134726, AC002375, AC009509, AL121652, AL096791, AL031846, AL035400, AP000556, AC004876, AC009516, AC005200, U52112, AP000514, AL049843, AL035587, AL121748, AC010170, AC004805, Z99128, AC004738, Z84469, AP000356, AC002316, AC009044, AC006023, AC007637, AC004526, AC007371, AC005943, Z83840, AF001549, Z85987, AC005921, AC004910, AC005484, Z85986, AC007999, AL008719, AP000553, AC006077, Z95152, AC004832, AC003663, AC002470, AC005089, AC002404, AC002425, Z93023, AC004841, AL031657, AP000510, Z83844, AL034548, AL035422, AC002425, AL133245, AL022165, AL049830, AC010205, AC000029, AC002045, AF124523, AL133245, AL031774, AC004785, AC002996, U52111, AC005740, AC009288, AC008018, AL035419, AL031774, AL031295, AC004638, AL133163, AC004771, U85195, U78027, AL096755, AL049829, AC004084, AC005069, AC004874, AC004771, U85195, U78027, AL096755, AL049829, AC004084, AC005069, AC005300, Z99716, AC005520, AL133246, AC005049, AL020993, Z82244, AC005837, AC005300, AL133244, AE000658, Z83820, AC004815, AC004099, AL109984, AC002550, AC006581, AL133244, AC006271, AC003982, Z97876, AC005523, AC004583, AC006265, AC005088, AC006511,

HCUEA72	556	713040	1 - 311	15 - 325	AC004896, AC005220, AC006960, AP000248, Z84466, AC004895, AC000353, AC005544, and AL031291.
					AW084919, I167179, T58440, AI708182, AI141130, AA586433, H52397, AI865087, R56848, AI566425, AW270183, AA721523, AA721530, AI962094, H61871, AA610433, AA292003, T89901, AA746911, AA374797, AW419389, H61942, AI697242, AW407340, W02189, AA069631, AA568314, AA809635, AA224917, AI697239, R69937, AI266359, AI749335, H71678, AI066711, AA666046, AI686470, H73306, T97896, H07953, AI583468, AI538214, AA071151, AL079666, AI697235, AA214042, AW074613, AA084076, AA468486, N70449, H13612, H01327, AA329565, AA032001, AA715955, AA525253, AA706495, T55992, AA601216, AA054085, AW152178, T81513, AL133749, H81267, AI858889, AI251576, W37651, AA747234, AA572784, AA513884, AI306232, AI583466, N52410, AA613754, AA249239, AC004859, AC005335, AC005332, AL096701, AL022069, AC006064, AL096773, AC004686, AC005291, AF001550, AC005005, AL121603, AC007773, AC004999, AC007637, AL109758, AC002544, AL021391, AC016027, AL133500, AC016830, AC006241, AC005102, AL031284, AC000052, AC005971, AC004216, AL049709, AC004000, AC005747, AC005375, AC008372, AC002477, AB023048, AC003664, AC004448, AL117338, U91323, AL020997, AL133163, L78810, AC008012, AC006130, Z86090, AC005280, AL035398, AL049653, AF196069, AC004253, AC005736, AC005919, AF019413, AL024508, AC006441, AL008720, AC002059, AC009399, AL023807, Z84487, AC005015, AF111168, AC006509, AC006121, Z95152, AC004801, AC004134, AL034420, Z83843, AC009247, AC001228, AL049775, AF190465, AC004832, AC007298, AF001548, AC004810, AC002312, AC007325, AC004791, AC004106, AL035683, AL021707, AL031683, AC004672, M63796, AC002476, AC004938, AC007312, AL050307, AL031659, AL022238, AL050341, AI238093, AL022322, AP000511, AF196972, AC005057, AC009464, AF217403, AC003687, AC000394, AL031657, AC004812, AP000032, AC006023, AC004019, AC005808, AL049636, AC002351, U07563, AL008707, AL079304, AC005288, AL031311, AL121658, AL031005, AL034429, AC003108, AP000089, AP000142, AL022316, AC007364, AC006539, AC004887, Z83826, AC002094, AC005049, AC006360, AL035400, AC002126, AC004526, AC004033, AL049766, AC005037, AC006362, AC004491, AD001527, Z99128, D87675, Z98304, AC006285, AC002996, Z84469, AF048729, AC003101, AL109627, AL049911, AL008719, AC006947, AC007308, Z93244, AC003025, AC006455, AC000134, AC004878, U62317, AC005180, AC004985, AF001549, AC006552, Z83844, AC006480, AF111169, AC008273, AF207550, Z83856, AL050318, AC007263, AC006312, AL079342, AP000961, AC000120, AC005800, AC005089, AC007878, AC005229, AC004996, AC004223, AC003663, AC007201, AC006344, AL031228, AL133245, AF139813, AF205588, AC004821, Z97053, AC002470, AF047825, AC004655, U91326, U80460, AC005520, Z98752, AF111170, AC003982, AF030453, AC004510, Z96258, AC004222, AC005839, AP000502, AC005632, AF196779, AC003690, AC004386, AP000104, U95090, AC002306, AL096767,

	557	579058	1 - 364	15 - 378	AC006530, AL031774, D63507, AC004131, AC002302, AC007056, AF108083, AC004962, AF086394, AL031230, AL117337, AC005670, AL035413, AL031447, AF024533, AC002044, AC007566, AJ246003, Z84480, AC007934, AC006026, AC005071, AL031427, AC002565, AC009248, AL109657, AL121653, AL023575, AC005399, and AC003103.
HCUEB62	558	935769	1 - 94	15 - 108	
HCUEC06	559	850066	1 - 319	15 - 333	H81012, H86221, AA018923, R64467, M87891, U14684, AL034429, AC004938, AC007376, AC004188, AC006480, U14701, AL022316, AC002477, AC005527, AC002416, Y14768, AC005620, AC005197, AC005907, AC000052, AL020993, AC002375, AC007055, AC006538, AP000505, AP000516, AC007707, U91629, AC004797, AC006263, AC005488, AC005914, Z82201, AC005529, AC005911, AC005410, AC007666, AC004019, AF111168, AF129756, AC005399, AC006449, AL139054, AL035587, AC005632, AP000512, AC005746, AC002310, Z74739, AC006511, AL023803, AC005667, AF001975, AC005753, AC004678, AL022237, AC002303, AL034420, AL021578, AL133448, AP001065, AL031311, AF053356, AC003043, AP000065, AC005971, AP000354, AF045555, AC004859, AC002551, AL118497, AC005003, AF134726, AC000405, AF165926, AL035086, AC005841, AL133163, AL050321, AL035405, U12387, AC007686, AC008015, AC005722, Z95114, AB014087, AL049766, AL020997, AL031447, AF001549, AL096677, AC006211, AC005777, AC007011, AC006077, AC002470, AC005409, AC005088, AC002104, AC004491, Z97055, AC000025, AL031985, AL034423, AC006441, AL121603, AF111169, M87898, AC004686, AC000025, AL031985, AC003663, AC004671, AP000503, AC004659, AC002492, AC004190, AC005037, Z98941, AL031662, AC005619, Z81365, AL022326, L78833, AC005682, AL008718, AF037338, AL031662, AC006130, and AC005486.
HCUEC78					AC006064, AC005954, Z97876, AC006130, and AC005486.
HCUED04	560	615410	1 - 324	15 - 338	Z94044, AC005480, AC006388, and AL022316.
HCUETD66	561	576573	1 - 449	15 - 463	
HCUEE04	562	653118	1 - 290	15 - 304	AA305339, AL121572, and AL022341.
HCUEE29	563	578709	1 - 240	15 - 254	AW297855, AA932284, AI911033, AI540093, AW105017, AA829228, AA814442, and AA768919.
HCUEE41	564	578715	1 - 235	15 - 249	AP000096, and AP000240.
HCUEE63	565	745184	1 - 100	15 - 114	
HCUEE66	566	578702	1 - 207	15 - 221	F37223, AW419118, F31799, AI446638, F23274, H64560, AI791610, AI867044, AW023672, AA381762, AA299115, AA548087, AI223616, AI287485, AW078552, AI053465, AI918421, AA399158, C06471, AI679713, H04867, AW130254, AA086236, AA469451, AW341903, AI439269, AI151261, N25303, AW129694, AI635274, AI679139, AI338426, AW302013, AI240891, AW152111, AI285696, M77950, AA913549, AW057776, AL044858, AA584489, AL138421, AI565873, R94974, AA609841, T47280, N58729, AA229444, AL039187, AA913114, AA302732, AI939465, AA527606, AA527716, AW130535, N20066, AW085801, AI110688,

AA230143, AI469968, AW273469, AI753365, AA573540, N35896, AI888752, AI821044,
AW192199, H47540, AI732239, AI267356, AI075744, AA757743, AA629702, AI536625,
AA329321, H08791, AI821467, AI754023, W90237, R94721, AI124660, AI370270, I171349,
AA528390, AA347835, AW085991, H86579, AI932884, AI207584, AA721577, AI570261,
AA947837, AA018923, AA012829, AW368401, AA323085, R71981, AA720664, AW131213,
AI811460, AA384039, AI539776, AA078483, AI267450, AI201668, AI929796, H96823,
AW175641, AW192518, AC004935, AL096775, AC006571, AL022330, U80017, AL117694,
U78308, AC004032, Z99128, AC000070, AP000080, AF049895, AL096774, AC005740,
AC004582, AP000134, AP000212, AP000030, U40369, AP000356, AC006001, D87675,
AC002451, AC007842, AF070717, AL009173, AC020663, AC002350, U76377, AI035539,
AL035411, U02068, AL031005, AP000320, AC004617, AP000251, AL132712, AC005485,
AL034430, AL096755, AL049874, AC004895, AL109985, Z72521, AC002369, AC006328,
AC007681, AC005911, AC000003, Z94277, AC006561, AL022237, AL135744, AC004258,
AC004773, AC006146, M87914, AC005291, AC007543, AL035681, AP000120, AP000167,
AP000052, AL034417, AC005215, AL023577, AC005150, AL022395, AC007919, AC005007,
AC007327, AP000502, AF064857, Z93241, AC005040, AC002524, AC006312, AC006062,
U73168, AC007227, AP000353, AL022323, AC000039, AC005771, AC005759, AC003102, AC007381,
AC006120, Z98255, AF095725, AC000019, AC007501, AC007632, AC002985, AP000142, AF117829,
AL096707, AC002126, AC007314, AC006538, AP000090, AF134726, Z83845, AC005516, U07000,
AP000113, U60274, AC004841, Z95115, AC002565, AL020993, AC008125, AC002564, AL121653,
AC003109, AF111168, AC005703, AL049712, AC006544, AC005095, D00591, AC002504,
AC005264, AC005209, AC005102, AC005180, Z99943, AC004511, AC004024, AL022324,
AC004003, AL035410, AC012599, Y14768, AC005993, AC004152, AC016025, AC007250,
AC007050, AC005595, AC004813, AJ003147, AC006251, AC005788, AC005200, AC005245,
AL049576, AL031846, AL034402, AL022320, AC005280, AL049557, AL078639, AC006543,
AC005875, AC007387, AC007695, AC002056, AC004462, AC008134, Z75888, AC005841,
AF003627, AP000143, AF129756, Z83844, AC002525, AC005994, AC005304, AC005914,
AC005251, AC007966, AL022318, AL035587, AC009946, Z86061, AC005696, Z80232,
AL035659, U47924, AC003041, AL022578, AC004584, AC006013, AC002314, AC007537,
AL035415, AC004517, AC005003, Z99497, AC004491, AC004453, AF123462, AP000031,
AC004678, AL021453, AF053356, Z83826, AC004745, Z93942, AC006455, AC005829,
AC000379, AC004650, AL031709, AC005670, AL022328, AL035450, Z75887, AL117354,
AC005520, Z68756, AL021808, AC006515, AL021368, AL031584, AC007207,
AL117256, AC007666, AC004838, AC007845, AL021395, AC007308, AC000072, AL031729,
AC002470, AP000966, AF079797, AC005328, AC005909, Z83851, AC008062, Y11873,
AL109628, AC003688, AC005031, AB017652, Z93783, L77569, AC008273, AC007878, and

HCUEE83	567	578703	1 - 406	15 - 420	AC006948.
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HCUEF90	568	578714	1 - 199	15 - 213	AL133485, AL022318, AF024533, AL049776, AC005037, AC002312, AC005924, AC007298, AC005288, AC004234, and Z93241.
HCUEG58	569	784414	1 - 113	15 - 127	AC005913.
HCUEG90	570	578745	1 - 141	15 - 155	AF024533, AF030453, and AC005088.
HCUEJ55	571	959552	1 - 110	15 - 124	
HCUEJ69	572	757657	1 - 526	15 - 540	
HCUEK37	573	964869	1 - 331	15 - 345	AA782338.
HCUEL28	574	706456	1 - 289	15 - 303	AI097211, AI446336, R92902, AI539685, AA775205, AI438967, AC007021, AC007564, U95739, AL049576, AC006077, AC006312, Z85987, AC005821, AC003663, AC006323, U95743, AC003026, AC011331, AF001549, AF029308, AC003037, AL136453, AC006965, AC005011, AC005764, AL023807, AL096774, AC005740, and AC005886.
HCUEL91	575	576568	1 - 119	15 - 133	
HCUEM23	576	576379	1 - 373	15 - 387	AC006531.
HCUEM35	577	861545	1 - 307	15 - 321	
HCUEM62	578	576575	1 - 248	15 - 262	
HCUEN34	579	706452	1 - 333	15 - 347	
HCUEN58	580	738225	1 - 453	15 - 467	
HCUEO17	581	932118	1 - 252	15 - 266	
HCUEO30	582	769203	1 - 274	15 - 288	AL039309, AA985145, AA558404, N52501, AI884861, AA657910, T55707, AA904211, H48017, AI431513, AI049504, AW341882, AA486819, H86579, AA774006, AA662431, AI809343, AA584756, T02817, H47295, AW089016, AA527109, AA502813, AA018923, AA012829, AI583291, AI816136, AW081503, AI471455, AW407388, AA053463, AW117723, AI826857, AW392414, AI251576, AI687343, AI306232, AW274191, W63553, AI583466, AI201668, T59930, R48980, AI306717, AI811647, AA429481, N22395, AA368329, AA599749, AA577855, AI031759, AA827383, T74524, AA214109, AA768179, AI628859, AW019964, AA434078, W92433, AI801824, AA339789, H86133, AA347867, AW301855, AA767257, AA548692, AW148886, AI697383, AI065031, AW029626, AI888050, AW117704, AI417586, AI300818, AL041924, AI310992, AA745628, AI267356, AA278496, AA287502, AI267459, AI369925, AA535756, AI434365, AA573000, AA374797, R02063, AW009653, AI831172, AA993165, N59744, H53284, AI279417, H73306, AI002863, AI869797, H54252, AL041352, AI049680, AA302978, H47296, AA916794, R84528, AA947265, AA078509, AW190277, AA486820, AI340151, AA364073, AA374525, R39627, AI872461, AA230146, AA773171, AW162303, AW084173, AA878407, AI459866, AW162047, AA295899, AI277318, AI860535, AW161786, AW117915, T51436, AI873627, AC002128, AC006356, AC004685, AL050338, AC004554, AC005518, AC006512, AC006023, AC008101, AC008079, AC007567, AC005722, AL031985.

					Accession Numbers
HCUEO31	583	576551	1 - 229	15 - 243	AL022329, AF111168, L48038, AC005516, U94776, Z83822, Z82190, AC000134, AL078621, AC005214, AP000566, AL031284, AC002301, AL031657, AC006026, AL078593, AC003695, AC002091, AC005906, L78833, AL049829, AC005747, AL023799, AL121754, Z82215, AC007435, AC007676, AC003692, AC006044, AC004878, AF196970, AL034420, AL022326, AC004033, AL020995, AB011399, AP000355, AC007386, AC007731, AC005500, AL022476, AL133500, AB016897, AL121923, AC006344, AF024534, AF024533, AL109827, AL050321, AC005086, AC007225, AC005355, AC005049, AC004156, AC002070, AL109956, AL008718, AC018633, AL050348, AP000557, AL031255, AC000026, AC002563, AC004134, AC006958, AL022336, AF053356, AP000556, AP000359, AC005740, AC005585, AB023048, AL031728, AC002059, AL050318, AL022577, AL117351, AC004139, AC005005, AF068862, AC004031, AF190641, AP000091, AF107257, AP000236, AL121652, AL117354, AF047825, AL109983, AC007444, AC004612, AC002504, AL096818, AP000690, AL021878, AP000689, AC007279, AC007227, AC005874, AF134471, AC004381, Z84466, U92032, AP000558, AC004034, AC004234, AL031295, AC007934, AC008080, Z85996, AL049869, AC006312, AC004099, AC004217, AL109847, AC005192, AB018295, AL021707, AC007551, Z96074, AL022721, AL121603, AC007878, Z98941, Z97333, Z97334, U62292, AD000812, Z49235, D86995, AC007792, AC002126, AL035659, AC005231, AC007324, Z93020, AL049759, Z83838, AC002351, AP000555, AC016027, AP000501, AC016830, AC005015, U47924, AC004943, AL034549, AL035469, Z68873, AC008873, AC008041, AL136295, AC006530, AL049830, AC004150, AC004814, AC000004, AC007556, AC006406, AC002524, AL035415, AC009247, AC007510, AC004832, AL136501, AC006210, AC006538, AP000510, Z84487, AC004012, AD000684, AP000067, AC005004, AF196971, AC002551, AC005566, AL133448, AF001550, Z76735, AL022165, Z82189, AC006211, AC006468, AL021939, AF049895, AL031289, AC007228, AB023050, AL096701, AC009516, AC004771, AL078581, AL031588, AL137191, AC007057, AL049872, Y10196, AL096755, AL022318, AL049569, L29766, AC000063, AC005300, AC006409, AL078583, AC004953, AP001053, AC005696, AC006946, AC006359, AL050341, AC005971, AC008170, AC002530, U51560, AC002314, AC005619, Z80896, AL024474, AL031275, Z95113, AL049843, AL035407, AC004900, Z97832, AC005730, and AC002302.
HCUEO41	584	576524	1 - 447	15 - 461	AW248352, AW249168, and AA628425.
HCUEO62	585	578713	1 - 387	15 - 401	
HCUEO79	586	850090	1 - 330	15 - 344	AA129273, AA129373, AI761842, F20339, AW291115, AA485396, AA835966, AW079768, AI287824, AW243878, F32537, AW190297, AI379711, AI828574, AA830626, AI758715, AA464646, AI560298, AA629936, W31910, AA936135, AA810103, AW087812, AI801167, AI559162, AW087203, AL021407, AL137300, AF019767, AL133104, AC002480, AF030635, and L78810.

HCUEP01	587	913675	1 - 449	15 - 463	AC004967, AC005206, AC005667, and AC005519.
HCUEQ37	588	881486	1 - 349	15 - 363	AL008718.
HCUEQ56	589	751410	1 - 442	15 - 456	AW452694, and AA972635.
HCUES29	590	579033	1 - 406	15 - 420	
HCUES34	591	850096	1 - 406	15 - 420	AA084609, AI312309, AI678287, AW151848, AA757621, AL037927, AI962030, AI306717, AW084173, AI567076, AA984920, AW023389, AW402784, AI065031, AL042753, AW238495, AI186233, AA825827, AA496309, AA584655, AA747375, AA584756, AI689135, AW192179, H29914, T67090, AI303008, H40478, AW328027, AA551548, AL078581, AC007199, AC005821, AC005736, AC005081, AC005722, AC007285, AC005520, AL049301, AL049538, U80017, AC002477, AC020663, AL031311, AL021453, AC005015, Z69921, AF129756, AC000120, AC002314, AC006530, Z69653, AP000065, AL035400, AC005519, AP000512, AB001523, AL117258, AF207550, Z98742, Z99128, AC007225, AC004858, AC006146, AC005696, AC007386, AL133245, AP000121, AC007686, AP000045, AC007363, AC000041, AC002115, Z86090, AP000704, AC002350, AC005102, AL049697, AC005057, AC007537, AF064861, AC002306, AC005280, AC004560, AC003957, AL031602, Z98941, AC005899, AC005837, AC005488, AC002059, AC000353, AC004622, U91326, AC004531, Z83856, AP000688, AF111167, AC004967, AL022316, AC005746, AC005744, AC000841, AC000118, AF001548, AC005682, AL049758, AC005220, AC003041, Z93930, AC007327, AC006312, AC004796, Z93244, AC004685, AC005829, AB003151, L44140, AC004962, AC004659, AC005562, AC007868, AC004408, AL096701, AC005049, AC004019, AC005500, AL023553, AB014079, AF165926, AL078463, AC009509, AC004477, X64467, AC006026, U63721, AC006120, L77570, AC004263, AL009179, Z95152, AF111168, AC004491, AC007240, AC006023, AF053356, AL022326, Z97054, AC007731, AC001231, AC005484, AC003082, AC005094, AC004686, Z83844, AP001058, AC000159, AC007367, AL031985, AC005412, AL049843, AC006538, AL021917, AF045555, AC006077, AL031295, AC003029, AC004383, AC002039, Z81364, AP000008, AC002492, AP000208, AP000130, AL096791, AC004148, AP000355, AF196969, AC002312, AL031662, AP000556, AL139054, AC007637, AC006111, AC005387, AC005355, AC012384, AC005288, AL021546, AC006254, AC007536, AC005031, AL035420, AL022165, AC004655, AC004583, AC004876, AC005529, AP000044, AL049776, AF003626, AF196971, Z68284, AC007314, AC006130, AL034420, AP000112, AP000504, AC002299, U62292, AL109984, AC006285, AC005952, Z84466, AC006141, AL049569, AC004675, AL009181, AC005237, AC005730, AC005772, AL031282, Z83826, AP000558, AC007384, AL031587, AC007387, AL050341, AL135744, AC008372, AC006011, AC005618, AP000113, AC000026, AF196970, AC002094, AC006014, AC007226, AC002395, U63630, AF001549, AP000692, AC006441, AC004859, Z97056, AL080243, U91321, AC005632, AF006501, AC006101, AF134726, AC005212, AC002316, AC004755, AD001527, AL109827, AC005756, Z95116, AC006947, AL022324, AC006449, AP000248, D87675, AF038458, AC004941, AL020997,

HCUES93	592	1 - 415	15 - 429	AC002369, AL035086, AC005781, AP000555, AL121603, AL021707, AC007283, AC006344, AL133243, AC007263, AC005527, and AC007229.
HCUET13	593	1 - 160	15 - 174	AC004821.
HCUET27	594	1 - 167	15 - 181	AW292137, AL039500, AI248007, AI078021, AI759999, AI476735, and Z95437.
HCUEU10	595	1 - 269	15 - 283	AA353854, AC004659, AC004771, AC005914, AC005245, and AC007182.
HCUEU20	596	1 - 274	15 - 288	AC007281.
HCUEV08	597	1 - 340	15 - 354	Z95116.
HCUEV17	598	1 - 1428	15 - 1442	AA585439, Z28355, Z30131, AI525556, AI535639, AA585101, AI541374, AA585453, AI557731, AI547039, AI525431, D80253, AI541365, AL045817, AI525306, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL040625, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AI540967, AL040510, AL041159, AL045725, AL041140, AI546999, AL040193, T11028, AL043467, AL044186, AL041278, AL044037, AL040091, AL040128, AL040168, AL040553, AL040255, AL040285, AL040342, AL040332, AL040617, AL045684, D61254, AL040745, AL040370, AL044165, AL046442, R29445, AL040149, AL040839, AL041752, AL044775, AL041635, AL045990, AL043492, AL041602, AL045920, AL038838, AI546945, AL044074, AL040263, AL040294, AL040329, AL040082, AL040458, AL044199, AL044187, AL040090, AL040263, AL041523, AL043627, AL046392, AL041374, AL044272, AL041186, AL040148, AL041730, AL039338, AL042135, AL044064, AL038983, AL039316, AL040052, AL043845, AL043537, AI541523, AL039338, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, T23985, AL038532, AL040768, AL037727, AI526194, AI046994, AL040414, AL040571, AL040576, AL046914, AI142134, AL045753, AL044274, AL079878, AL049018, AL040444, AL045857, AL039744, R28735, AL038822, AL045671, AI536138, AL040238, AL046327, AL041168, AL049069, AL043444, AL040075, AI557262, AI541514, AL041246, AL040472, AL041347, AI541535, AL041955, AL038761, T23957, AL080031, T41289, AL045989, AI556967, AI546828, AA585476, R29177, AL044529, AI525316, AI557787, AI526073, D51250, AL046147, T23888, D80219, AI546891, AI546855, AL039643, AI541510, D80043, AL039360, AL037435, C16300, AI526140, D59787, AL037436, AA585434, AI541510, D80045, AA585356, AA174170, D57491, AL039924, D80227, AL045794, AI535983, AL044125, AA585875, AA585440, AI541017, AL079852, AI541307, D80240, AI535660, AI557799, AI546875, AL039085, D80134, AL043445, AI541534, AI541509, AL045211, AL039156, D51423, D55233, AI557238, T24112, T24119, AL039564, AI039538, T11051, AL039108, AL039678, AL039074, AL038837, AL039625,

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HCUEW19	601	576513	1 - 344	15 - 358

HCUEW58	602	850061	1 - 395	15 - 409	X55932, U02063, X55931, U14703, U14707, U14702, X55928, U02048, X54175, U18387, AF196779, X54179, U18400, AF015166, S70699, AF147277, Z22650, Z30993, U67828, S70689, S70692, AF015149, U67827, AF064724, X53550, AC005799, Z49816, AP000553, AC007114, AF077058, U67829, AC005624, AC004381, AF015154, AC004542, AL117258, AF015151, AF001550, AF015157, AC007664, AF015156, AF015147, AC004929, U75285, AF164343, AC007874, Z95114, AL035417, AL031255, AC002045, AC009516, U67831, Z95115, U47924, X74558, AC005043, AC005535, AL008718, AC005527, AC007738, AC003007, U67233, AC006312, AF018071, AL031709, AL049776, AC004878, U67231, AB020865, AC004638, AL049869, AC006011, AP000297, AL021453, U85195, AF060568, AC003119, AF085444, AC005387, AC004955, AP000510, AL035659, U50871, AC005330, Z69917, AC005632, Z49235, X88791, AC006363, AC004876, AC000379, AD000092, AE000658, U29953, AC005412, X60459, AC003111, AL031589, AF134726, AC007064, AC000052, AC004797, AC004167, S77605, AC002091, AF147439, AC006116, AP000402, AP000517, AC000999, AC007041, AL034420, U67225, AC007055, Y14766, AP000501, AC005529, AL078603, AC009891, AC004069, AF038458, AL035587, AC002312, AC006111, AC006013, AF045555, AC004019, AC006285, AC005763, AL031259, Z82198, AF085913, AC005144, AC004812, X76629, AC004033, AL133243, AC004815, U67222, AP000505, AL022310, AC005324, AC005194, AC002307, AC004894, AC003006, AC004821, Z69921, AC002094, AP000338, AC007792, AC005821, AC004531, AF094481, AC004522, AL121655, AC005375, AC005072, Y14486, AC004785, AC007666, and AC004453.
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HCUEX58	604	462365	1 - 343	15 - 357	H59974, H80899, AL020997, AC007308, AC005081, AF045555, AC004686, Z95113, AC004953, Z81369, U95739, AC005049, AL079295, AC002302, AC004491, AL122020, AC005488, AL049869, AL008721, U89337, AC003009, AL031584, AF152365, AF222686, AC006013, AC003663, AC005325, AC007938, AC004854, AC006515, Z99570, AL117337, AL121655, AC005005, AF190631, AC006115, AP000510, AL022316, AC006101, AC007785, AL008726, AC004859, AC005391, AC005102, AL031311, AL132992, AC004477, AC004104, AC004019, AL080243, AL132777, AB023048, AC005632, AC009721, AC007263, AL022343, Z74617, AC006111, AC005971, U07562, AC004685, AC003029, Z82208, AC006271, AC005899, AC004832, AF064861, AL022318, AJ246003, AD001527, Z97054, Z93930, AC005288, AC003689, AC004762, AL109758, AC005015, Z98946, AC006040, AF001549, AC005011, AL121658, AC004893, AJ003147, AC004785, Z84467, and AC002369.
HCUEX74	605	953897	1 - 326	15 - 340	AF150416.
HCUEY29	606	920419	1 - 378	15 - 392	
HCUEY48	607	576519	1 - 387	15 - 401	R24915, N32878, R07374, AA748826, AA772016, AI287921, AI051037, AA626829, AA569065, AA745356, H91844, N64587, AA879053, AA055601, AI984593, AW271917, AA657416,

HCUF788	608	576537	1 - 326	15 - 340	AA837715, AA655005, AI908575, AA525409, AA640617, AA457249, AA827771, AA888777, T03203, AL047411, AA176917, AA594188, AI537330, AF034193, AA613966, R80456, H79308, W02971, L78810, AC005048, AC006509, AL022163, AC007308, AC005920, AL049844, U80017, AL109963, AC005274, AC004000, AC005060, AL031666, AC005231, AL035420, Z68223, AC004148, U82828, AF165926, Z99716, AP000501, AC007276, Z82244, AC004895, AC005606, AC005914, AL008635, AC005701, AC006646, AC005081, AC004228, AF109907, AC005378, AC006441, AL022320, AC006285, AC002394, AC006241, AC005411, AC006011, AP000356, AC005913, U73024, AC002350, AL031283, AC004623, Z83840, AC005023, Z98051, AC006050, AL020997, AC007876, AL031283, AC004217, AC002301, AC005206, AC004209, AC005406, AL020995, AC004858, AF196779, AC004217, AC002301, AC005206, AC004209, Y10196, L44140, AL031295, AF064861, M30688, AL035460, AC006538, AL031431, AF207550, Y10196, L44140, AL031295, AF064861, U47924, AC002133, AC005667, Z93930, AP000065, AC007263, AL078581, AC005102, AP000472, Z82214, AL021918, AL035683, AC003695, Z82201, AL035410, AF172277, AL035413, AC004528, AC004019, and AL121603.
HCUFA05	609	932116	1 - 385	15 - 399	AI028483, and AW023910.
HCUFA38	610	675677	1 - 324	15 - 338	Z93023.
HCUFB15	611	660460	1 - 257	15 - 271	AA626710, AW138429, AI087993, AI077877, N69907, AA657613, AW162236, AI161164, AI356294, and AC004067.
HCUFB89	612	746601	1 - 305	15 - 319	
HCUFC22	613	951134	1 - 306	15 - 320	
HCUFD09	614	625728	1 - 292	15 - 306	T64920.
HCUFG64	615	576574	1 - 102	15 - 116	
HCUFH32	616	920281	1 - 227	15 - 241	AA679737.
HCUFK94	617	722999	1 - 175	15 - 189	
HCUFL02	618	932429	1 - 447	15 - 461	AC000159, and AB007864.
HCUFL15	619	575844	1 - 448	15 - 462	
HCUFL35	620	677853	1 - 413	15 - 427	R98755, R98754, AA642005, and AW292993.
HCUFL77	621	575843	1 - 357	15 - 371	R09221.
HCUFM60	622	730707	1 - 444	15 - 458	AI824558, AI375432, AA887250, AJ914747, AA558412, H93568, AI003725, W89152, AC007229, AC000353, Z99716, AP000355, Z95114, U91321, AL034400, AP001052, AL021155, AC004821, AL133500, AC004985, AL049869, AF134726, Z73964, AC004812, U91318, AC002070, AC003950, AC006441, AC007227, AF001549, AC005829, AC004834, AL022476, AC002394, AC005919, AF064860, AC004687, AC005484, AC004382, AC004491, AC006016, AC002126, AC007565, AC005527, AC002996, AC005971, AC007371, AC004448, AC005057, AC005182, AC004646, Z97054, AC004851, Z98044, AL022313, AC009330, Z79997, AC000003, AC009542,

HCUFM65	623	576809	1 - 452	15 - 466	AC004882, AL080243, AB001523, AC005377, L44140, AL096791, AL009181, AP000502, AC006211, AC005952, AC005529, AP000350, AC004216, AC007546, AC000077, AC003029, AC004472, AP000194, AL109657, AL078611, AL121595, AC004778, AL133353, AC007151, AC003690, AC005913, AL049569, AC004587, AC004820, Z98752, AC008989, AL022163, AL031588, AC000029, AC007055, AC002400, Z94056, AC004590, AC002039, AC005915, AC006241, AC004890, AC006509, AP000047, AL031276, AC002352, AL031985, AL117694, AL031673, AF053356, AL096701, AB003151, AL035089, AC005102, AP000552, AC006039, AC008072, U91323, AL021939, AC002303, AC003003, AL022323, AL022721, AP000117, AC004990, M90058, AF061032, AJ003147, AC005011, AC003101, AL050350, Z84487, AP000115, AL023575, AC003110, AP000512, AC004967, AC006505, AL024508, AC005193, AC005881, AC005332, AC004703, AL034417, AC006461, AC005015, AC005081, AP001054, AC004796, AL096702, AC004678, AC002468, AC007406, AC002470, AP000066, AC002350, AC008372, AL031005, AC005736, AL020997, AC006274, AL096703, AC005531, AC004841, AC004938, AC004686, AC005089, AC002425, AL117258, AC003010, AC005763, AP000555, AC005839, Y12787, AC002492, AC007688, AI008718, AC004854, AC007382, AP000501, and AL121757.
HCUFN65	624	741927	1 - 487	15 - 501	R47962, AA731533, and AI950023.
HCUFP13	625	576582	1 - 339	15 - 353	AA046457, AI373707, AI864613, AA054000, and AA015959.
HCUFP76	626	861703	1 - 293	15 - 307	
HCUFP91	627	575864	1 - 140	15 - 154	
HCUFQ80	628	709357	1 - 455	15 - 469	R89560, AA483606, AA570740, AA568204, AA664126, AI250262, N63755, AW083408, Z22963, AA015948, AA768179, AA482725, R89906, T05684, AW152348, AA565679, AA302978, AA633981, AB022537, AI114772, AI866911, AA503018, AW002330, AA731361, AA487209, AW151018, AI821382, AI820534, H56703, AL120052, AA626411, AI801649, T50251, AA676592, AA810837, AL039801, AA229823, AI065038, F35684, AA228979, AI804539, N24909, AI889579, T51436, AW272815, AA572921, T63030, AA515723, N71619, AA564925, AA837771, AA745297, F31811, AA297006, AI800345, T05617, AW419126, H62923, AI709180, AA228442, AA862075, R34070, AW021608, AA507343, AI791437, N37070, AI732483, F00949, AL041895, H07953, H69653, N95817, AI206078, AL048838, AL041019, AL048825, AA177013, H59651, AW409763, AP000163, AB022537, AC005841, AL031228, AC005858, AB019437, Z95704, AC005192, AC002377, AC003083, AL035494, AC005799, AC004986, AL031432, AC005632, AC004772, AF109907, Z97180, AC005837, AC006406, AC004858, AC004987, AL031277, AC002550, AC003007, AC005820, I34294, AP000548, AC000120, AP000365, AC007277, Z93023, AL022721, AC005089, AC004855, AF139813, AC006597, AC006512, AC007731, AC005500, AC005575, AL096701, AC004910, AC004526, AL096712, AC007227, Z83844, AP000561, AC006030, AP000116, AL049872, AL050318, AC005057, AL109980, AC004033, AC003025,

HCUFT26	629	575721	1 - 426	15 - 440	AC004228, AC004796, AC004884, AL009181, AC006057, Z85987, AL049692, AL024498, U91326, AL031577, Z49235, AC005793, AF047825, AC005037, AL009178, AC006146, X71402, AC002314, AC006013, Z68756, AL008635, AL031680, U47924, AL008719, AC002558, AL135744, AC007358, AB016897, AL133246, AL022311, AC005086, AC005545, U62293, Z93241, L48038, AC010205, AL132987, AC004686, AC004263, AP000311, AC005358. AF001549, AB023049, AC006023, AC006088, AL033521, AC002059, AC007276, AL080243, AL022336, AL049761, AL049833, AF069291, U80017, AC006948, AC002549, AL031584, AL022343, AL109952, AL049713, AB015355, AC006275, AC920663, AC005703, AL022719, AC005409, AL109984, AC004659, AL049591, AC005800, AC006006, AC005005, AC004234, U95742, Z95116, L44140, AC003026, AI003147, AC005071, AC007216, AC005763, AC005183, Z83843, AC004386, AF029308, AC007435, AC000003, AC005257, AL031123, AC005219, AC005231, Z81364, AL121823, AC009286, AL031668, AC005874, AF134471, U78027, AF196972, AC007429, AC004656, AC003689, AL031689, AC004596, AI133245, AC007066, AC005940, AC006285, AC007226, AC007688, AF111169, AC031005, Z94801, AL035422, Z97053, AC000026, AF207550, AB001523, AC007367, AL031367, AL049538, AC004834, AL009031, AC002326, AC005069, AL035071, AC004382, AL096861, AC004024, AC001231, AC002563, AL034423, AC004864, AC005488, AC005516, AP000030, AC007151, AL031447, AC004817, AC004594, AL031291, AL035413, Z82176, AC004805, AF217403, AP000511, AP000555, AL133312, AC006344, AC005821, AC004531, AL034549, AL096791, AC008119, AC004783, AC007278, AC002470, AL020997, Z93020, AF143315, AC005696, AL132712, AF196779, AC007388, AC006014, U91325, AP000066, AC005520, AL096774, Z94802, AC000387, AC016026, AL022313, AC005962, AC005412, AC004655, AJ239318, Z84469, AL035405, D84401, and AL008718.
HCUFU36	630	575831	1 - 251	15 - 265	AC007879.
HCUFU49	631	953896	1 - 337	15 - 351	AW403674.
HCUFU58	632	725891	1 - 444	15 - 458	AA088560, AI733762, AI733719, and AA053641.
HCUFU68	633	694410	1 - 312	15 - 326	AA077835, AI149915, AC005914, AC007785, AC005082, and AC006371.
HCUFU91	634	828083	1 - 323	15 - 337	
HCUFV13	635	578459	1 - 357	15 - 371	AA361129.
HCUFV44	636	576650	1 - 322	15 - 336	AA618332, and AC004883.
HCUFW41	637	850007	1 - 571	15 - 585	T65857, AI678013, R44293, R40978, H24231, F01849, AW177822, T92856, AW177816, AC006537, U73166, AC006512, AC000353, AC005102, AC004685, and AC004458.
HCUFW61	638	862086	1 - 442	15 - 456	AL031666.
HCUFW75	639	575830	1 - 307	15 - 321	T08386, AI636734, AA947369, AA077619, R34070, AA830070, AW151018, F09355, AA598605, AI799421, AI459943, AW019964, AI271762, AA565319, AA612727, AL121287, AA788592, AA721554, AA664126, AW408767, AA745302, AA742818, AA878407, AA938390, AI052776,

AI160786, AA525293, AA736557, AA594719, N41775, AA579399, AA508036, AW440368,
AL134167, AA553457, AI732911, A1904944, AA515926, AI459904, AI284045, AA846923,
AW054936, H38769, AA502207, AI918419, AW102811, T90477, AI824476, AA715508,
AW338860, AI819391, AI567391, AI749893, H12857, R69819, AI823705, AW028950, AI925065,
AI025930, AW161016, AW088631, N68449, AA715075, W24312, AW238253, AI053784,
AI355873, AA847831, F35684, AA558748, AA501867, AI879951, AI335963, AI133514,
AA993636, H79586, AA599080, AI114704, AA219349, AA634926, AA503018, AI306717,
AI904840, C06004, R83068, R67701, AI120543, AA772704, AW264901, T54144, AA297207,
AA715173, AI250262, AI417586, W95552, C14330, AA326904, AA564682, AA469172, T51556,
AI923052, AA493947, T50676, AA336058, AA582374, AI289050, R93919, AA838091,
AA603264, AI284092, AA230146, AI479068, AA650447, AC005971, AL034549, AI035457,
AC006547, AC004765, AC005696, AC006317, AL109952, AL096791, AL049589, AC000003,
AC000134, AL031848, AC006057, AC006512, AL035682, U47924, AP000337, AP000216,
AC006581, AL096701, AC006449, AL020996, AL049759, AL049643, AC006141, AL035443,
AC004858, AF015416, AL031291, AC004815, AF045555, AL109628, AC004148, AF109907,
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AC005081, AC004263, AL035405, AL023879, AL022721, AL022400, AC002350, Z99943,
AC005519, AC005529, AL022238, AC007917, AI035588, AL031295, AC004019, AL021939,
AC005874, AF134471, AC005952, AL031737, AL049869, AC002369, AL049653, AC004262,
AC005881, AP000566, AC010206, AC000097, AC005089, AL020995, AC005921, AC004668,
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AC004757, AC006561, AC005765, AC002544, AC000052, AC007993, AC006121, AL049776,
AC007566, AC005154, AF064861, AJ003147, AP000310, AP000309, AL035400, Z83826,
AC005777, AC002394, AP000048, AC005376, AP000116, AL031230, AC004216, AL035447,
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AC005962, AD000812, AC002126, AC004050, AC007406, AC006064, AC003043, AP000555,
AC005618, AC006390, AC006014, AL035071, L77570, AF050154, L78810, AP000229,
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AC007201, AL031707, AC005578, AC004974, AC003690, AC000090, AC007938, Z73359,
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HCUFW83	640	577263	1 - 401	15 - 415	AC007842, AL133382, Z84484, AL008719, AI229041, AC006318, AC006077, Z98044, AC005559, AC005225, AL050350, AC007014, AC002378, AP000272, AC002458, Z98052, AC004953, AC006312, X96670, AC000035, AF149773, AC005164, AC008067, AF038458, AP000503, AF029308, Z86090, AL031311, AC006251, AC005152, U02051, AC009509, AL031005, AP000553, AC004991, and AC004381.
HCUFX24	641	577266	1 - 178	15 - 192	AW449501, and AI751021.
HCUFX74	642	850067	1 - 564	15 - 578	
HCUFY27	643	669876	1 - 112	15 - 126	
HCUFY35	644	577130	1 - 337	15 - 351	AW339568, AW270284, AI305766, AI298977, AI565581, AW102955, AI345522, AA658235, AI357551, AI203955, AI344844, AL120008, AI340453, AI557323, F33121, AI708009, N69962, AI937850, AA225201, AI379719, W07122, AI110848, AI880168, AA657741, AI053786, AI254338, AI349874, AL134330, AA993198, AI801591, AI084012, AW169687, AW403720, AI345654, AW265009, AI802526, AA581903, AA569284, AW327360, AI697353, AA369477, AA484148, AF034176, AI423941, AI473943, AI889765, AI161293, AI923140, AI924251, AI888110, AI890928, AI890570, AW157326, T71998, AI225141, AW265294, AI358571, AL043756, AA715362, AA251117, AA715270, N43757, AL023575, AL031675, Z98050, AC006211, AL033397, AL049780, AC007055, AC006146, AL034419, AP001039, AC007540, AC005544, AF042090, AC005226, AL033381, AC005906, AC005245, X13921, AC002536, AL021391, AC002430, AC007384, AL049557, AP000295, AL109754, AC005856, Z85996, Z95113, AL022318, AC005684, AL022396, AC002394, AF091512, AC005548, AI003147, AC004381, AL031311, AC003087, AC004228, AC022517, AP000354, AC007917, AC005821, U63721, Z82194, AC005274, AL137191, AC005386, U07000, AF011889, AC005772, AC004408, AL022147, AC006037, AL031668, Z98049, Z98257, AC007160, AL121580, AL031447, AC007652, AL034376, AC004770, AC005070, AP000356, AC006213, AF064866, AB015752, AF029308, AC005722, AL109758, AL132987, AC005005, AC005912, AC008012, AL031368, AL034370, AC002070, AC007878, AC006996, AC005005, AD000684, Z97205, AC009405, AL021977, AF001552, AC005664, AP000958, AP000245, AD000684, Z97205, AC009405, AL021977, AF001552, AC005664, AP000958, AC005697, Z93942, AC005820, Z94044, AC005694, AP000566, AC004887, AP000120, AP000167, AP000052, AC004941, AP000961, AC006253, AC006547, and AC005220.
HCUFY40	645	967273	1 - 194	15 - 208	
HCUF281	646	878882	1 - 346	15 - 360	
HCUGB48	647	880730	1 - 470	15 - 484	W24312, AA634926, F11421, AW007247, H60486, AA569089, AA938390, Z95331, AC006441, AL022316, AF111168, AL035659, AC012384, AC002378, AC002565, AC007546, AL079342, Z99716, AC005952, AC005225, AC005722, AL109627, AC004876, AP000356, Z83840, AC002119, AL109657, AC005822, AC005736, AC005089, AD000813, AC007066, AL049856, AC004832, AL080243, AL096791, AP000349, AL049709, AC005091, AC007011, AP000113,

HCUGC96	648	575825	1-546	15-560	AP000045, AL035249, AC006449, Z98304, AL033392, AC002040, AL031662, AC004099, U82668, U80017, AL035086, AC004966, AP000493, AC007384, AL035695, AC005360, AC007182, AL133448, AC005903, AL034549, AL022322, AC005355, Y07848, Z93020, AL030996, AC006001, and AC005031.
HCUGD15	649	660343	1-429	15-443	R64618, and R64619.
HCUGF18	650	666495	1-309	15-323	AI821309, T57758, AI820666, T91659, AI732244, T93260, AC007344, AC002542, AL139054, and AL109946.
HCUGF61	651	741842	1-393	15-407	AC009411.
HCUGG25	652	678112	1-164	15-178	
HCUGH01	653	916600	1-316	15-330	R09190.
HCUGH30	654	778735	1-436	15-450	AI248117, N34987, and AI242866.
HCUGH34	655	706469	1-300	15-314	
HCUGH83	656	862078	1-188	15-202	AP000011, and AP000153.
HCUGI29	657	584711	1-669	15-683	AA011550, AA854029, AI808348, AA448255, H61005, AL035067, AL121934, and AC000004.
HCUGI54	658	715310	1-154	15-168	
HCUGI35	659	850046	1-280	15-294	AF150363, U25791, and Z64124.
HCUGK10	660	850035	1-347	15-361	AW131457, AI792578, AI054419, AA720732, AI244356, AW008089, U95742, AL121603, U91326, AC002544, AC004019, AL022476, AC005527, AC005668, AL034420, AC005670, AC008044, AC007216, AL031255, AL133245, AC005484, AC005529, AL109985, AC006486, AC003104, AC010169, Z97205, AL022336, AC004967, AL121658, AC005031, AC002470, U80017, AL096791, AC003101, AC002312, AC004967, AL121658, AC005031, AC002470, U80017, AL109827, Z81364, AC005921, AC005839, AF205588, AP000105, AP000037, AL049795, U47924, AL117337, AP000354, AC002369, AF190465, AL031670, AF134726, AC005291, AC006441, AC005399, AP000228, AC006241, AC007201, AP000140, AC003688, AC005800, AC004230, AC006312, AC006384, AP000275, AC006511, AC006538, AC007386, AL021368, AL049776, AP000088, AC005482, AC006972, AC005412, AR036572, U91328, AC004655, AC006116, AC004526, AC005841, AC005539, AL049869, and AE000658.
HCUGK91	661	790218	1-135	15-149	AI049931, AA133226, and AC007685.
HCUGL14	662	658467	1-313	15-327	F33566, N71930, AL042753, AI888008, AI499094, AC002119, AC005772, AL031589, AF165926, AC006241, AC007676, AL031587, AC012599, AC005730, AL008582, AC005057, AC009248, U62293, AC005527, AC004686, U85195, AC006273, AL021154, AL035414, Z98051, AL133245, AE000658, AL096701, AL035684, AL050333, and AC002115.
HCUGL84	663	496491	1-304	15-318	
HCUGM08	664	959488	1-364	15-378	T63954, AA648150, AW438856, W04941, AW236344, H85059, AI016704, AA188665, AW277253, R44641, AA714586, AA593471, AI472075, R70333, AA297698, AA043218.

Gene	No.				Accession Numbers
HCUGN12	665	970727	1-444	15-458	AA206629, AA078831, F01222, N54179, AI797901, AI797892, AI345717, AI287921, AI020997, U62293, AL035681, AC005057, AC005089, AC006285, AC016025, U80017, AC007919, AC005162, AL031848, AC004895, AC005081, AL034429, AB011134, AL031846, AC010209, AC004686, Z49236, AL049759, AL049539, AC005914, AL022320, AJ007042, AC006077, AL049776, AC006064, AC007191, AC005480, Z83826, Z99943, AL021808, AC004999, AL035684, AP000359, AC005387, AC005215, AC005058, AL021393, AL049874, AC002347, AC006001, AL035072, AC004859, AL031255, AL132987, AC001228, AC004817, AL031276, AC005837, AL008582, AC005210, AC004814, AC005411, AC005280, AL096712, AL121603, U02050, U82672, Z84480, AL035448, AL034379, U66061, AC004217, AP000252, AC000353, AP000555, AP000031, AB015703, AL121769, AC005520, AL133448, AL034430, AL133163, L48038, AC009516, AB007956, AL022326, AC004882, AL139054, AC004019, AC007160, AC005082, AP000134, AP000212, AC006501, AJ239325, AC004531, AL031431, AC020663, AC006486, AL049713, AC003029, AF064858, AR060394, AC005839, U62292, AC005399, AC004000, AL031005, AP000563, AL031666, AC005512, U82671, Z93020, AC005529, AC005047, AC000026, AC004887, AL109758, AC005231, AC004216, AC007151, AL132777, AC006211, U63721, U95742, AC002059, AL031311, AC004990, Z99127, AC002404, AL035398, AF165926, AC005887, AC005216, AL109628, AC006111, AP000141, AC004526, AC005874, AF134471, AL021154, AC004841, AC003966, AC007308, AP000512, AL049869, AL049712, AP000558, AP000211, AP000133, AC003109, Z97054, AP000509, U95740, AP000556, AL121655, AC002470, AC005015, AC004520, AC004704, AL023879, Z74739, AC004057, AC005348, AL109839, AC002511, AB023049, AC010206, AF064866, AC005900, AP000088, and AC006479. AA702118, AW381452, W95006, W95007, and AC002375.
HCUGO02	666	920154	1-340	15-354	AA127364, AC004033, AC005500, AL049856, AC007731, Z98941, AC002477, AC006088, AC002390, and AL021391.
HCUGP83	667	850029	1-206	15-220	AC002559.
HCUGQ16	668	917269	1-343	15-357	Z54621.
HCUGQ18	669	666474	1-353	15-367	AI686509, AI670941, AI380740, AI652572, AI810486, AA251386, and AF070587.
HCUGR38	670	706471	1-332	15-346	AA492380.
HCUGR82	671	916538	1-425	15-439	
HCUGT92	672	692730	1-349	15-363	
HCUGU46	673	666815	1-200	15-214	
HCUGV38	674	850032	1-361	15-375	R96187, AA327572, R96188, AA582056, AW084237, AI791180, AI821138, AA508578, AW194802, AI623499, AA649148, AI932902, AA707289, AA669816, H54292, AI889612, AI623423, AA573189, AL041364, AA085863, AA380599, AA357240, AA078084, AA594725, AI926366, N54179, AI446638, T61853, AI660594, AA365144, AA584749, AI124660, AA650135, AA864575, AA806762, AA524668, AI863399, C14600, AI064952, AI963720, AA516326,

					AA351926, AA947837, AA826144, AL046409, AA078483, AI345161, AW021917, AA525915, AA483043, AA708213, AA167741, F31799, AW150689, F37223, AA715606, AI678392, AI110770, AI45323, AW274064, AI613280, AL041450, AW194267, AC006001, AC004209, AL031286, AC004477, AL049795, AC007637, AC004491, AP000289, M15958, AC003010, AP000042, AP000110, AC005332, AC004383, AL078584, AC007376, AC004985, AC002364, AC004216, AC005778, AC002984, AC007686, AC002527, AL049869, AC006285, AC007011, AC016025, AP000514, U95740, AC002996, AL031985, AL022328, AC005632, X87344, Z84487, AC002350, AC004134, AC007564, Z84469, AC004000, AP000502, AC004217, AL050343, AL117694, AC006251, AC002365, AL031594, AC005006, AC004020, AC006088, AC006430, AC006538, AC005224, AC002301, AC007685, AC005261, AC002331, AL031311, AL031685, AC003108, AC008124, AC003037, AC005736, AF134726, AC005996, AL117352, AC004770, L78810, AC004448, AC005488, AC005072, AC005015, AC004968, AD000092, AL031584, AL022339, Z99716, AC004552, AC003663, AC002041, AJ011930, AL133353, AC005104, AL049872, AF001549, AP000065, AC005229, AF196779, AC005971, AC005932, AF030453, AC005089, AC005666, AC005258, AC004938, AL121653, AC004019, AC005041, AC005088, AL049766, AC006597, AC005722, AC005067, AC005513, AC007056, AL034554, AC006014, AC007298, AC003070, AC004125, AC003983, AC007690, AP000557, AC007050, Z82178, AC002132, AC004983, AL031587, AC005899, AL121655, AL121603, AP000113, AP000045, AC005379, AC005755, AL034548, AL078621, AC005187, AC005252, AL035530, AC002126, AL022329, AC007541, AC005747, AC004910, AP000167, AP000052, AP000692, AL049643, Z93017, AC008115, AC003689, AL121852, AL133448, AL049759, AL139054, AL121748, AC006372, AC007731, AP000556, AF001548, AL031010, AL049758, AC003007, AL031589, AL031729, AC004253, AF024533, AL133382, AC005288, AC005184, AC007666, AC002352, AC004195, AP000553, AF031078, AP000116, AC007055, AC004841, AC005519, AC005414, AC004933, AC009464, AC005912, AC004815, Z82244, AP000211, AP000133, AP000049, AC006312, AL121694, AF030876, AC005081, AC008928, AL049760, AL121652, AF053356, AC005230, AC005529, AC006480, AL035681, AC005231, AL049709, AC006006, AC007671, AC006050, AP000311, AC006079, AC004821, Z92540, AC005280, AC004531, AL049829, AL031427, Z98751, Z93244, AL022336, AC004859, AF091512, AC003026, AC003972, Z85986, AC004757, AC002400, AL049712, AL033527, AC004765, AL031053, AC005412, AC005158, D87009, AC005876, AC004099, AL031447, AC002425, AL035447, AL035400, AC005399, AC007214, AC005057, AB023048, AC012384, AL031767, AF139813, AC007276, AL050307, AC005037, AC006203, U52112, AC005914, U85195, AB020863, AL133355, AL031846, AL022326, AL117258, AC005531, AC007684, AC007227, and AC004492.
HCUGV60	675	496443	1 - 412	15 - 426	AC007964, AJ229041, AF020802, and AP000687.
HCUGW04	676	960596	1 - 257	15 - 271	AI557735, AJ541487, AJ541489, AI526178, AJ557747, AI541516, AI526200, AI557797, AJ541491, AI557718, AJ541501, AI526151, AI557724, AI557740, AW393605, AI526177,

HCUGY26	677	953550	1 - 480	15 - 494	AI526179, AI541535, AI557789, AI526127, V00124, V00125, J00032, J00030, J00036, J00034, J00037, J00038, AB010555, and AB010556. T86914, R11217, H81306, AL035495, AC005325, AC004836, AP000350, and AC020663.
HCUGZ15	678	792418	1 - 363	15 - 377	AA580889, F35659, AI446464, AI064864, H29303, AA610491, AI792108, AI079129, AW274349, AW303196, AW301350, W45336, R89436, AW338086, AA663306, AI886629, N27353, AA847997, T06652, AI872460, AA558227, Z81364, AL080243, AP000557, AC009516, AC006016, AC007556, AP000556, AC008372, D87001, D88268, AC007021, AC005574, AC004741, AC004614, AC006019, D87675, AC005542, Z84487, AC004859, AF011467, AL031686, AC006441, AL035411, AP000141, Z75894, Z75895, AC004467, AC006313, AP000088, AC004088, AC004814, AL031122, AC005071, Z98884, AF090944, AL008582, AC004702, AC004894, AL031662, AC005899, AC000035, AC005049, AC004821, AC005690, AC004448, AC007934, AC005971, U95743, AL109963, AL024474, AP000104, AP001052, AC006925, AC006211, Z49236, AC006561, AC002369, Z84480, AC002456, AJ010598, AL031276, Z98052, AC002981, AC005531, AL035695, AL079340, AL031666, AL049856, AC006600, AL109847, U66059, AC004841, Z85987, AL133245, D86999, AC000090, AC006292, AL050332, AC006203, AF111168, AL023713, AC008984, AC004777, AL031767, AL022337, AC005799, Z84488, AC002289, AC002485, AC010072, and AL078593.
HCUHA63	679	745094	1 - 296	15 - 310	AA494014, AI628859, AL041352, AW002330, AL035249, AC009247, AL121757, AC006057, AL121769, AC004217, AC004134, AL050341, AC006449, AC004143, AC005284, AC002369, AC005351, AC000120, AC005206, AC005667, U80460, Z83822, AC006315, and AC002128.
HCUHA74	680	576850	1 - 434	15 - 448	AA629699, AP000346, AP000347, AL021368, and Z79145.
HCUHB30	681	850018	1 - 438	15 - 452	AW440928, N58862, AA613460, and Z97989.
HCUHC25	682	920830	1 - 305	15 - 319	W39262, AI797360, and AI823657.
HCUHC41	683	712343	1 - 354	15 - 368	Z98036.
HCUHC45	684	671212	1 - 354	15 - 368	
HCUHC69	685	693007	1 - 189	15 - 203	
HCUHD50	686	650854	1 - 398	15 - 412	
HCUHD55	687	705384	1 - 479	15 - 493	AW419262, AI284640, AW238016, AI053672, AA559290, AA077776, AI536625, AA837771, AA614069, AI653886, AA365302, AW021917, AW419389, F32926, AI499938, F24728, AI926233, AI761471, AI299050, AI334443, AA167741, AA302963, AA489775, AW023111, AA526724, AA843450, AI915081, AI357823, AA652057, AA346586, R67701, AA804379, AA528500, AA973803, T80500, AW248940, AI185394, AI754291, H67172, AI561116, R91994, AL046746, AA486820, Z23147, Z61362, AC004126, AL109627, AL031255, AC006948, AC000134, U02058, AC005482, Z99755, AC006270, Z82244, AC006057, AC006125, AL031281, X54176, AL133353, AL031732, AC004526, X54181, X54178, AC006511, AL031432, I34294, AP000115, AC005317, AC002492, AC002316, AC002990, Z84488, AC005291, AC005378, AC006070, AL031055, U89337, AL031055, Z84488, AL135744, AL031587,

Gene	ID	No.	Range 1	Range 2	Accession Numbers
HCUHE23	688	675910	1 - 314	15 - 328	AC008372, U47924, AC004820, AC004381, AL034419, AC003101, Z84484, X54177, AC003003, AL022336, AC007308, AC002463, AC006126, AC003108, AL049757, AC004134, AC005375, AL008583, AC005365, AL117258, AC006241, AC006312, AD000813, AC009181, AC008116, AJ080317, AP000474, AL023803, AF001552, AF196779, AC007537, AC005581, AC004453, AL096703, AP000212, AC002418, Z83843, AL117330, AC004130, AC003668, AC006120, AL033375, AP000080, AP000152, AC007066, AC004382, AC007030, AF190465, AC002558, Z94801, AC007735, AC005412, U73634, U29953, AF178081, AC004544, AC007228, AC004518, AL096701, AC005412, AC006257, AC005512, AL022323, AC002425, AC005081, AJ009610, L48038, AL022576, Z85986, AP001060, AP000289, AC005217, AC000003, AF088219, AL022316, AL035420, AC004929, AL008719, AP000110, U02531, U80017, AC004386, AL049569, AC006543, AC005839, AC005410, AC007919, AD000092, AC007707, AC003029, AC005406, AC006251, AC006251, AC007387, AC007564, AL049589, AC005189, AC007731, AC005913, AC005500, AL034553, AC002119, AP000090, AC005726, U02532, AL049576, AF067844, AC004216, AC004217, AC006544, AP000552, AC002352, AL080286, Z97195, AL020993, AL031284, AC007536, AL050333, AL031733, AC008149, AL034406, AC007425, AL121769, AC004554, AF111167, AC008163, AC006552, AL035072, AL035683, AL033543, AL033521, AC006323, AC000026, AF111169, Z82215, AL109628, AL031685, AL034420, AC007563, AL021392, AC005193, AF097736, AL049829, Z82246, Z97635, AC005003, AC007540, AC002289, U34879, AL035687, AL078462, AF019413, AL031664, U02507, AC004383, AC005598, AC004466, AC005740, AL121603, AC005255, AC004000, AJ003147, AP000558, AC006965, AC007298, AL049635, L78810, AC007159, AP000049, AL049691, AL049860, AC005162, AC006275, AC004408, AC005736, AC005988, AL022318, AC002073, AL034418, AC004746, AL023655, AC009721, AL008722, AC002472, and U73023.
HCUHE31	689	693311	1 - 340	15 - 354	AA127426, AW023990, AA080866, AL031591, Z97056, AF131217, AC005512, X60653, AC004858, AC016831, AL096703, AF165147, AP001052, AC006088, AC005031, AC004084, AC005281, AC008132, AL031542, AC004999, U80017, AC005920, AF087913, AC005180, AF200465, AC005242, AC005189, AC007686, AC005908, AC005529, AL035422, AC005829, AC002477, AC008018, AC006064, AL050332, AP000493, AC008033, AC000025, AC004972, AB023049, AL035658, AC005695, AL096791, AP000555, AD000090, and AC006023.
HCUHE43	690	754187	1 - 314	15 - 328	AI800436, AA746360, and AI800456.
HCUHE48	691	835917	1 - 397	15 - 411	AC002492.
HCUHE76	692	666599	1 - 319	15 - 333	AL023096.
HCUHF12	693	970685	1 - 543	15 - 557	
HCUHF41	694	878528	1 - 529	15 - 543	AI254913, AA547947, AW302080, AW302087, H82133, AA846952, AI932599, AA569661, AI082791, AL119691, AI253007, AI470239, AA507612, AI751216, AW303096, AW268291, T60681, AW410354, AI382825, AA491681, AI278972, AA569471, AI923333, H90844,

HCUHH14	695	658452	1 - 197	15 - 211	AL039145, AI969436, AI866487, AI445088, AL120269, AA467984, AA630672, AA536016, AA320997, AW027660, AA760808, AC002551, AC003043, AL022721, AL031733, Z93017, AC004084, AC005049, AC005667, Z85987, AL022238, AC005620, AC005081, AC004167, U62631, AC006064, AC005295, Z93930, AC004797, AC002350, AC003684, AC004686, AC006236, AP000247, AC005562, AL109628, AF111167, AC004520, AC006538, AC005102, U89337, AL021707, AP000208, AL008730, AC007688, AC005251, AL022328, AC004156, AC005071, AP000552, AC005015, AC006211, AC016830, AP000345, AL035684, AC005280, AF001549, AL133355, AL121603, AC005736, AC016025, AP000557, AP000295, AC006455, AC008101, AC006466, AL035458, AC002476, AC005971, AC005972, AC004491, AL021917, U63721, AC003966, AL080241, Z94801, AC005399, AC009516, AC004646, AL133245, AP000031, AP000117, AC005037, AL031588, AC006088, AL021155, AP000338, AF109907, AP000556, Z97054, AC007298, AL050321, AL022395, AC005288, Z93244, AL049830, AP000216, AC004921, AF205588, AC007687, AF196779, AC008132, AC002549, AC004707, AC005257, AC005519, AC002470, AC000118, AC004967, AC007686, AL050307, AP000210, AP000132, AC005837, AC005324, AJ246003, AC004799, AC007011, AC004662, AC002288, AL031668, AC005225, AL031594, AC004991, AC004834, AC005527, AC006126, AB023048, AC006430, AC004263, AL050318, AC002375, AL132712, AC004865, AL109758, AC005952, AL049569, AC007227, AC004088, AC007312, AC004883, AC005778, AC016831, AC005004, AL050341, AC007386, AL022316, AC004453, AC004000, AF129756, AC007285, AC002091, AC006449, AC004760, AC009743, AC002300, AF053356, AL031284, AC005057, Z94044, AL031680, AC006040, AP000550, AC005206, AL035681, AC004963, AC004262, AP000215, AF196970, AC007541, AC007390, Z98752, AL031283, AC008018, AF217403, AL035079, AC006285, AC004253, AL031666, AC005737, U91322, AC004859, AC007676, AC003108, AC004638, AC007845, AF030453, AL022067, AC004858, AC005412, AL035587, AC007664, AP000065, AC004841, AL078596, AC012330, AC004933, AC002395, Z84469, AC005067, AC002565, AC005379, AF196971, AC005088, AC009498, AL031589, AL080243, AC002074, AC007193, AL049760, Z85996, AL022153, AF207550, AC005529, AC008372, and Z97876.
HCUHI34	696	923803	1 - 503	15 - 517	AI695562.
HCUHI54	697	720378	1 - 311	15 - 325	
HCUHJ12	698	970782	1 - 205	15 - 219	AL031708.
HCUHJ15	699	577304	1 - 418	15 - 432	AC003007, and AC005632.
HCUHJ30	700	966583	1 - 568	15 - 582	
HCUHJ58	701	575796	1 - 387	15 - 401	
HCUHM44	702	615198	1 - 95	15 - 109	
HCUHM61	703	576561	1 - 472	15 - 486	

HCUHM94	704	736095	1 - 250	15 - 264	AC002302.
HCUHO60	705	576563	1 - 258	15 - 272	AP000313, AP000193, AP000050, and AP000117.
HCUHP20	706	669737	1 - 384	15 - 398	AA122006, AA122007, AI733856, AI753365, AI254779, AW419262, AL039187, AI017251, AW274078, AA482711, AA584489, AI634187, AI862716, AW193493, AA527209, AA503019, AW117740, AW069227, AW271069, AA610509, AA410788, AW162049, N73060, AA579179, AI929531, AA634837, AA315361, AA574442, AI250552, AA742815, AI284543, AI457313, AI912401, AI040051, AI079901, H30475, AA483606, AL079734, AI254770, AA287570, AI251284, AI251034, AI251203, AI223626, AI249853, AA652868, AA570740, AA613627, H47736, T50676, AW029038, AI679413, AI380617, AI569086, AI004591, AI469599, AA856961, AA582554, AA228778, AW167154, AI821044, AA255853, AA904275, AL120343, AW067788, AA513846, AI079423, AI475611, AA904211, AI062050, AW068007, AI885572, AI908093, AI623805, AW302048, AI564209, AI338426, AI365988, AI653886, AI053978, AI884522, AI339850, AI570261, AA019973, AI270476, AA558366, AA568204, AA013168, AI276298, AA569706, AW406755, AW068008, AI358229, AW166815, AW004884, AI866580, AI732120, AW089950, AC000353, AF024534, AC007666, AC005086, U91321, AC005291, AC005678, AC002126, Z82203, Z95152, AC006211, AP000510, AC004895, AC005071, AB023048, AC004417, AC005412, AC005531, AC002070, AC004099, AL034351, AC005102, AL117340, AL035450, AC006312, U63721, AC006511, AC007193, AC005411, 134294, AC006314, AC007199, AC005484, AL109627, AB003151, AL031680, AC004797, AF109907, AF111168, AC007395, Z84480, AC009247, AC007686, AL139054, AC005777, U82828, AL023803, AC005837, AF196969, AC006084, AC005800, AC005225, M87914, AP000556, AP000557, AC005722, AC004253, AC005971, AC005274, AF085946, AC006088, AL049830, AL035658, Z97054, Z85986, AP000289, Z84466, A39972, AC005520, AP000042, AP000110, AC005736, AC004999, AC002312, AC005089, AL031281, AC005237, AL031282, AL109865, AP000688, AL034418, AL049749, AC003047, AC005081, AL121603, Z98946, Z84487, AP000501, AL121652, AL021546, AC004477, AC004491, AC004953, U95739, AL049843, AC004890, AC002519, AF015160, AC000087, AL096791, AL033392, AC003111, AL035458, AF134726, AL035587, AC004517, AC004973, S75201, AC006947, AC007225, AC005015, AF045555, AC006538, AC004686, AL021391, AL049874, AL022165, AC002310, L78810, AC005220, AF196779, AC007551, AC005075, AC004263, AL035682, AP000694, Z98048, Z94801, AC012627, AC006597, AL035415, AC005859, AC005696, AB001523, AC004812, AC005300, AC004985, AC004841, AJ003147, AD000813, AC007065, AP000037, AC002997, AC004804, Z85987, AP001053, AC006581, AC007785, AP000211, AP000133, AC005037, AC005829, AC006121, AC016831, AC007845, AC006006, AC002563, AP000113, AP000045, AC003950, AL031685, AC004168, AL034420, AL049776, AC008545, AF165926, AC004884, AC005057, AF092858, Z77249, AC007226, AC004882, AC005529, AL133448, U96629, AC002565, Z98304, AC003043, AC004000, AC004234, Z83845, AP000088, AC005363,

	707	575803	1 - 352	15 - 366	AL133163, AL035422, AC002985, AC007371, AC005088, AL080242, AF001550, AC003678, AC004032, AL023577, AC004760, AL121754, AC005940, AC006530, AC005538, AC005209, AL034451, AF075098, AP000692, AP000121, AC005318, AC007637, AL109952, AP000503, AL049766, AL009181, AC007277, AC005578, AF010238, AC004500, AL021154, AC007537, AF037338, L78833, AC018633, AC005049, AC007792, AC006449, AL049569, AF061258, AC006125, AF176815, Z99943, AL035400, AC005215, AL008582, AC003108, AC006285, AC004816, AP000555, AC005280, AL031664, AF129756, AL078477, AC005622, AC002470, AC002416, AL035703, AL031005, AC004560, AC002347, U07561, and AC006578.
HCUHQ13					
HCUHQ33	708	575800	1 - 341	15 - 355	AA460896, W72144, AA210943, N27422, AA496897, AL035413, and AL035249.
HCUHQ37	709	850010	1 - 386	15 - 400	AI281622, T95073, H52431, AC006077, AC005412, AC005911, AL033392, AC005736, AL031291, AC005529, AL109963, AC005049, AC005071, AC005089, AC005899, AC006111, AC005520, AC004491, AL133245, U91326, AC005015, U91323, AL023807, AC006261, AC006487, AC005295, AC008372, AC009247, AC005874, AF134471, Z93244, Z93930, AC003108, AC004938, AC002404, AC004882, AC005081, AC006312, AC003070, AP000514, AL096701, AC005255, AL049776, AP000692, AL020997, AF165926, AC005544, AC005332, AC007537, U95742, AC005399, AL096678, AL049795, AL022318, AC007205, AF196971, AC005225, AF124523, AC004814, AC006449, AC007263, AC009516, AC005088, AL109827, AC004139, AC004098, AC002429, AL049869, AC005722, AC005527, AC006538, AC004922, AF118808, AL031311, AL035422, AL022323, L78810, AC007055, AP000952, AC007993, AL109627, AC005280, AC005881, AP000045, AP000113, AC005921, AL135744, AP000556, AP000502, AC004876, AC003109, AC005932, Z99716, AD000092, AC007226, AL031447, AC005480, AF111168, AC005694, AC007216, AC004893, AC002565, AL139054, AL031587, AP000512, AC002310, AC004596, U85195, AF134726, AP000557, L47334, AC005207, AC000353, AC007193, AC002550, and T97461.
HCUHQ74	710	765638	1 - 341	15 - 355	AW020154, AW245057, AW023511, AA365318, AI648433, W63553, AA643451, AA659200, N62666, AA559166, AAI71892, AI086039, AA584756, AW029444, AA633039, H43183, AI049504, AA643441, AI628245, AA330380, AI890753, AI635819, AA230155, AW130427, AI733748, AA278496, AI732430, AI049986, AA126763, AA126811, R63003, AL134330, AA993198, AI753365, AI922850, AC005701, AC005777, AC004242, AL031668, AP000113, AA039982, AL022336, AC006480, AL022324, Z83843, AC007057, AL022302, AC004386, AC007308, AC005932, Z97183, AC004382, AP000512, AF037438, AC005295, U91326, AL008639, AC002470, AL121825, AL049759, AC007192, AB023051, Z82194, AL049569, AC016027, AL020993, AP001046, AC006165, AL031276, AC005756, AC016830, Z97054, AP000354, AL022329, AC006441, U18671, AC007136, U37761, AC005874, AF134471, L34079, AF129756, AC005488, AL109801, AC006487, AC005081, Z99716, AE000660, AC006077, AC004467, AP000303, Z98941, AP000349, AC005412, AL031311, AC005529, AC002477,

HCUHS19	711	1 - 280	15 - 294	U91325, AL121658, AL034430, AL049776, AL132712, Z98752, AC000052, AL096701, AC008018, AP000114, AP000046, AP000010, AJ000742, AC007792, AC003029, AF207550, AC004158, AC004263, AC004999, AC000087, AL008637, Z49866, L78833, AP000501, AC004019, AL139054, AL035079, L04193, AC007225, AC004975, AL020995, AC000120, AC007707, AC002400, AF196779, AC002350, AC005332, AP000500, AL121754, AC007263, AL022328, AC007421, AC005046, AC004686, AL049646, AC004638, M87903, AL133448, AP000513, AP000044, AP000045, AL031733, AL008635, AC004750, U91323, AC006961, AL021578, AL009181, AL109967, AC007041, AC004983, AL049830, AL034582, AF165926, AL022722, AP000694, AC007050, AC002070, AC002115, AL132987, U96629, AL023553, AL133245, AC004562, AL035400, AC002543, AC003108, AC005212, AC005156, AB003151, AL031670, AC003101, AC005261, AC006006, AC007546, AC005544, AC004797, U91321, AC005837, AC004887, AC002117, AP000556, AP000557, AL078581, AC005527, AC005722, AP000552, AB023048, AC005821, AL049795, AP000511, AP000151, AC007462, AP000553, AC002045, AC006597, AF109907, AL022316, AC000025, AC005581, AC004996, AC006966, U95742, AL080243, AC005231, AC005562, AC006509, AC004922, AC007055, U85195, and AC007216.
HCUHS60	712	1 - 272	15 - 286	R44293, R40978, H24231, AI678013, T65857, F01849, AW177816, AC006537, AC000353, AC006512, and U73166.
HCUHT21	713	1 - 122	15 - 136	AI207507.
HCUHT56	714	1 - 447	15 - 461	AA459655, AC006125, AF196779, AC002425, AC005529, AP000511, AC005778, U96629, AL049576, AC005924, AC007688, AC009294, AL022726, AC005726, AC006538, AC004084, AL008730, AL021155, Z98036, U93305, AC004685, and Z99716.
HCUHU68	715	1 - 212	15 - 226	Z98883.
HCUHW54	716	1 - 100	15 - 114	
HCUHW59	717	1 - 164	15 - 178	AW275339, and AI879909.
HCUHY49	718	1 - 288	15 - 302	
HCUIA48	719	1 - 470	15 - 484	
HCUIJ35	720	1 - 490	15 - 504	U91320.
HCUIL80	721	1 - 100	15 - 114	AC005200.
HCUIM51	722	1 - 441	15 - 455	AI821342, T65972, T62955, AL039515, AI820553, AW272389, AA135761, AI969090, AA197089, AI581006, AA955031, AA558488, AI889177, AA340581, AI250333, AI310787, AI310670, AI349130, AI857834, AI174827, AA525156, AA525331, AA507623, AW366198, AW008217, AI150934, AI590442, AA493546, AA809104, AI821945, AI733856, AW192518, N35135, AA598605, AI090377, AW069227, AI049504, AA714389, AI309943, AI754037, AC004893, AC004859, AC003689, AL109798, AC005484, AL096791, Z85986, AC005725, AC006539, AC005529, AC005913, AP000501, AC006241, AC005225, AL022322, AC005828,

HCUIN18	723	666537	1 - 273	15 - 287	AL135960, AJ131016, AP000503, AL031277, AC005046, AC005832, AC004695, AC007225, AP000356, AC004707, AP000085, U95740, AL034549, AL049569, AC002314, U91327, AF134726, AL049872, AC004890, AP000359, AC005632, AC003103, AL121653, AC002395, AC005768, AL033397, AC010205, AC002312, AL021407, Z84484, AC000379, AL133353, AC005071, AC009498, AC006450, AL034420, AC006251, Z83826, AL122020, AP000692, AC002300, AC005377, AC005033, AC004884, AC007376, AL035400, AC007226, AF001975, AL117338, AF064863, AL031283, AL049694, AC007327, AL031985, AF123462, AL009172, AC005839, U91323, AC004953, AF117829, AL133247, AP000038, AP000106, Z98884, AL034379, AC005538, AC004079, AP000350, AC006544, AC009247, AL031733, AB023048, AP000049, AC004099, AL031427, AC004990, AP000311, AL009179, AC004996, AC005231, AC004386, AC000052, AC004019, AP000347, AC004882, AC006946, AL022128, AC005048, U95742, AC007100, AL034371, AC000025, AC004263, U82828, AC003065, AC007216, AL121754, AC005011, AC004381, AP000337, AC006063, AL133448, AC006055, AL031431, AL109952, AL109623, AC009330, AL023575, AL035691, AL020997, AP000047, AC005015, AC005412, AC006530, U96629, AL049757, AF109907, AF111169, AC004087, AL132712, AL132777, AL035420, AL135745, AL031005, X98745, AF001548, AP000355, AL078463, Z74617, AC006487, AL031311, AL133485, AC004984, AL022163, AF069291, AC005369, AC005288, AL024498, AC007240, Z82215, AC005154, AP000151, AC008033, AC002470, AC004106, AC004084, AL049869, AC007736, AC004230, AC004967, AC002369, AC007671, AC004975, AL031281, AL031670, AL035681, AC004134, AC006538, AC006064, AC004584, AC007227, AP000115, AC006001, AC003086, AC006443, AC002418, Z83840, AC005527, AL121655, AC007066, AC006430, AC004815, AL022316, AC002073, AL021155, AC004966, AC005808, AC003006, AC004638, AL109628, AC002991, AC002326, Z99128, AL080243, AP000514, AC004531, AC009542, AC006130, AC000353, AL035249, AC004383, AC004662, AC003043, AC007934, AC002039, AC004041, AC005202, Z97632, AC002543, AP000505, AF053356, AL031291, AC005736, AL031680, L44140, AC007055, AC004897, AC005899, AL133163, AL022721, AC005480, AC005747, Z83843, AB020864, and AC005823.
HCUIO82	724	883812	1 - 323	15 - 337	
HCVAC18	725	889480	1 - 219	15 - 233	
HCWAA20	726	669991	1 - 108	15 - 122	
HCWAB01	727	921689	1 - 320	15 - 334	AW070506.
HCWAB44	728	669714	1 - 313	15 - 327	AA584207, AL031680, AC007688, AP000692, AC004910, AC005088, AC004491, AB003151, AC005071, AC005015, AL022326, AC005409, AC005081, AL020995, AP000688, AC006468, AC005768, AC009247, AL109839, AC012384, AF053356, AC005179, AP000167, AP000052, and AL031848.
HCWAB50	729	724684	1 - 139	15 - 153	

HCWAB56	730	507283	1-311	15-325	
HCWAB67	731	529658	1-112	15-126	
HCWAB80	732	959937	1-415	15-429	AA654766, AC005874, AF134471, AC005211, AC008044, AF030876, U52112, Z97054, and AF031078.
HCWAB92	733	523447	1-238	15-252	
HCWAC68	734	529653	1-321	15-335	
HCWAE16	735	660280	1-156	15-170	
HCWAE50	736	655130	1-211	15-225	
HCWAF02	737	920993	1-711	15-725	
HCWAF45	738	723452	1-322	15-336	AI271873, AA834816, AI053939, AW382603, AW021847, H72269, AA079260, R81017, R62710, T58562, AI003068, AA507623, AA525818, AA533660, AA515048, AI826857, AC003957, Z93023, AC005837, AC007182, AC005245, AC005933, AC004771, AC005914, AC005695, AC005102, AC003685, AP000497, AC004031, AC014132, AC003678, AL008582, AL109952, L78833, AL021546, AC005014, AL049776, AP000694, AL096701, AP000279, AL008722, AP000038, AP000106, AL078644, AC006484, AC007542, AC005899, AC003003, AC006581, AC007066, AC004890, AL096678, AF196779, AC006417, AC007192, AP000502, AL050333, AC007057, AL049872, AC005399, AL035249, AL021878, AP000116, AP000103, Z97056, AC003041, and AC002476.
HCWAF60	739	523354	1-301	15-315	R91062.
HCWAF80	740	529498	1-286	15-300	F02374.
HCWAG20	741	839796	1-299	15-313	
HCWAG70	742	529357	1-352	15-366	
HCWAH52	743	574929	1-235	15-249	AA812265.
HCWAI93	744	523536	1-330	15-344	AW134548, AA649218, AF022655, and AF049105.
HCWAJ55	745	529161	1-68	15-82	
HCWAJ58	746	740987	1-351	15-365	M77919, and AL109984
HCWAK51	747	751640	1-297	15-311	AA837325, AI679390, AI679898, AA808982, AA971196, AA112924, AA856815, AA207147, AW408063, AI298079, Z97630, AC005921, AC006597, AP000030, AC004882, AC002477, AC005529, AP000163, AL121658, AL031602, AC004531, AC005071, AC004856, AC009516, S42653, AF109907, AB026898, AC004638, AC006449, AC005899, AC004831, AC007546, AL049697, U95742, Z86090, U52112, AL031005, AL031767, AP000501, AC007066, Z98946, AC005089, AC002527, AL034420, AC005846, AC005231, AC007216, Z81369, AC006581, AB023054, AC005696, Z84469, AC005768, U95741, AL033397, AL109628, AL109865, AC004770, AL079295, AL133238, AC008124, AC006509, Z97876, AL031733, AC005971, AC008372, AC007055, AC005663, AC006445, AC004491, AC004019, U95740, AC007041, AC005695, AC004526, AC004851, AL022238, AC004801, AJ246003, AL022327,

HCWAK80	748	1 - 470	15 - 484	AL109627, AC004854, AC005940, AC006041, AC007687, AC004841, Z99496, AC016027, AC005519, AL022336, AL022165, AC005911, AL035659, Z97181, AL030996, AF111168, AC004796, AL031685, Z49236, AL109801, AC006965, AC007743, AL035070, AC005730, AC004520, AC005914, AL049694, AC005328, AP000495, AC004693, AL031003, AL049759, U85195, U95739, AC004797, AP000304, AP000047, AP000115, AL049710, AF165926, AC004813, AL021578, AC006277, and AC005821.
HCWAL14	749	1 - 332	15 - 346	
HCWAL22	750	1 - 468	15 - 482	AC005327.
HCWAL39	751	1 - 330	15 - 344	
HCWAM08	752	1 - 95	15 - 109	U95742, AC007216, and AC007226.
HCWAM39	753	1 - 170	15 - 184	
HCWAM49	754	1 - 495	15 - 509	
HCWAN17	755	1 - 684	15 - 698	AA630456, H38769, AI581223, AI003797, AL037777, H65697, AW161459, AW161879, AI191343, AA936548, AI473671, T90477, AA743968, AA299422, AA361354, AI570380, AI733856, AL047645, T94072, AA715891, AI287766, AA292719, H24953, AI054414, AW007424, AA501781, AA526424, AA577824, AA456149, AI684335, AA811150, AA654849, AA669320, AA493657, AA380781, AI866580, AA640495, AI049630, N87333, F31203, H47208, AA064978, AA678976, AA745628, AI357109, AW084100, AI308598, AW029515, AI683116, AA133013, AA714338, AA584525, AI473995, H94979, AJ247101, AW022796, AF092853, AF092850, AC006160, AC005412, AC004929, AC005872, AL008636, AP000353, Z75407, AF092851, AF195658, AC002040, AC006262, Z98200, AL023513, X58139, Z54246, AC006480, AF191069, AF007563, AL121754, AC005620, AL096766, AC006530, AP000144, AC004773, AP001067, U85195, AC004990, AL031005, AC005480, AE000658, AP000313, AL034418, AC004475, AC005829, AP000194, AC006323, AL096701, AP000555, AL049569, Z84469, AL049780, AP000116, AP000117, AC005696, AC006021, AP000049, AC004851, AL034553, AP000151, AP000043, AP000041, AL109952, AC005197, AP000311, AC002390, AL008718, AC007191, AC002316, AL022158, AP000112, AC003048, AC005233, AL034548, AL049779, AL035079, AL030996, AF132033, AP001068, AC002504, Z93024, AL031597, AL121748, AC004651, AC003663, AF130343, AC005231, AL035691, AL117258, AJ251973, L22968, AC005544, AL023799, AC000066, AC005231, AL035691, AL117258, AJ251973, L22968, AC005544, AC004760, US2112, AL024498, Z98304, AP000010, Z85999, AL109967, AC005803, AC006251, AC004262, AB014088, AB033024, AC005037, AC002314, AC007488, D89927, AF106656, AC005178, U63630, AC005192, AL022326, AB000876, L34079, AP000506, AC002045, AB000882, AB020868, AC006241, AC003670, Z98747, AF143316, AC007204, U96629, AC007263, AJ011930, AL121577, AL021939, AC005280, AP000115, AC002375, US2111, AL049835, AC006538, AC006492, AC004492, AC005820, AC004923, U02047, AC003992,

Name	No.	Range 1	Range 2	Accession Numbers
HCWANS5	756	1-375	15-389	AC004953, Z98751, AC006088, AC005690, AL022399, AC004819, AL021451, AC005625, AP000493, Z94161, AL121825, AC002468, AC004815, AC006130, AC004703, AL023803, S65785, AL035703, AL133035, AL021453, AL109798, AL023584, AC006529, AC006576, AL031295, AL009181, AL096801, AC005004, Z82212, AC004202, AC002425, D64108, M19508, AB009668, AJ012008, AL008716, AC005264, AC020663, Z99127, AP000314, AL031767, AP000502, AC007011, AL049843, Z93244, AC004638, AC008123, AP000557, AC005006, U91326, AL031277, AC006359, AC002039, AC005952, X96421, AP000694, AC004519, AL035664, Z73963, M90058, AC007270, AC005196, AL078881, AC005049, U47924, AC002306, AL030998, AC004876, Z97353, AF134726, AC004841, AC002091, and AL035462.
HCWAP63	757	1-409	15-423	AL022067.
HCWAP66	758	1-303	15-317	AI216990, AI076729, AC007381, and AF109907.
HCWAR05	759	1-397	15-411	
HCWARS9	760	1-687	15-701	
HCWAR63	761	1-392	15-406	
HCWAR76	762	1-488	15-502	
HCWAR84	763	1-199	15-213	AC005820.
HCWAT16	764	1-326	15-340	
HCWAT59	765	1-339	15-353	
HCWAU26	766	1-263	15-277	
HCWAU89	767	1-333	15-347	
HCWAV75	768	1-396	15-410	
HCWAY41	769	1-336	15-350	
HCWAZ16	770	1-328	15-342	
HCWAZ43	771	1-496	15-510	
HCWAZ66	772	1-434	15-448	
HCWAZ73	773	1-284	15-298	AI720968.
HCWAZ91	774	1-443	15-457	
HCWBA18	775	1-179	15-193	
HCWBA21	776	1-394	15-408	T59362, and T59390.
HCWBA49	777	1-327	15-341	AI695904, AI652833, and AC005576.
HCWBA50	778	1-326	15-340	
HCWBA55	779	1-296	15-310	
HCWBA64	780	1-265	15-279	
HCWBB27	781	1-392	15-406	AI709174, AI932902, AA078084, AW194802, H54292, AA085863, AI889612, AI623423, AW236342, AI268812, AA563770, AA573189, AA252763, AI824562, AA526779, AA669816.

HCWBB63	782	667283	1-332	15-346	AA846935, AW190760, AA917683, AI282336, AI889440, AL042756, AI537030, AA176605, AI291124, AI312149, AA515224, AA179706, AI291268, AW270258, AA604514, AW008212, AP000689, AC005808, AC005969, AL023553, AC012627, AL023575, AL033376, AC006312, AL109654, Z84721, AC007066, AC006360, AC005304, AC002400, AC005480, AL078581, AL031985, AC005004, AC005682, AC005317, AC002312, Z84487, AC007537, AC005206, AC005358, AL136295, AF053356, AC004087, AC002316, AC002558, AC002319, AC006241, AC003663, AC005011, AC005667, AC002310, AL049745, Z93930, AC007055, AC006040, AC005412, AC005015, AC005399, AC005519, AL021939, AC007934, AC006211, AL031848, AF003626, U91326, AC012384, AL096763, AL117354, AC002302, AF207550, AC004263, AC005041, AC003982, AC007151, AL031666, AC002072, AL031662, AC000052, AL008582, AL049759, AL121655, AC005324, AC004966, AL121603, AP000359, AC007263, AC007666, Z83826, AL035422, AC002350, AC006449, AC007536, AF111167, AC002544, AL031670, AC005081, AP000344, AC005516, AC003664, AC005756, AL008723, Z97630, AC007216, AC004076, AL022320, AP000552, AC006953, AC006160, AL009181, AP000350, AC005379, AP000355, AC007707, AC002984, AC004254, AC006430, AJ246003, AL022336, U85195, AC005069, AL049869, U07563, AL113448, AL031587, AC005632, AC006450, AC007371, AC007050, AC005102, AL031584, AC004821, AL022312, AC005696, AL020996, U95740, AC005899, AC005562, AL022318, AC005874, AF134471, AL035681, AL021578, AC004972, AE000658, Z99716, AC004983, AC004752, AL022326, AC004019, AC002425, AL109627, AC009516, AF109907, AL021394, AC006571, AC007363, AL033521, AD000813, AC004540, L77570, AC004929, AC004000, AC005291, AC004383, AP001038, AC004963, AC004253, AC002565, AC004106, Z98051, AC006088, AC005844, Z94056, AC005104, AF001549, AL049776, Z93023, AL035405, AL031589, AF064861, Z83840, AL050321, AL080243, AC005747, Z84480, AC002430, AC005839, AL008635, AC004771, AL031281, AC004894, AB023049, U80017, AL031393, AL049712, AL121934, AC006539, AC018633, AC005878, AC004841, AC003950, AL109628, AP000512, AF111168, AC004560, AL121825, and AC007227.
HCWBC16	783	529350	1-208	15-222	
HCWBC28	784	584778	1-341	15-355	
HCWBC32	785	574909	1-361	15-375	
HCWBC54	786	573188	1-331	15-345	AF187320
HCWBC61	787	728666	1-313	15-327	R91175, AA347930, AA347927, AI431688, AA078849, AI690686, AA328169, R70333, AW238345, AA078869, F23239, AA364224, AA177120, F04987, R40056, AA843450, AI160117, AW088984, D29495, AA449523, H79261, AI561255, AA310868, AW272758, AI185122, N31557, R36315, AI679442, AI679952, AA449088, T59509, AA704643, H78230, R77905, R96959, AW102849, AA347101, AA985357, AA581463, AA810283, AA338486, AI610376, F33566,

HCWBC69	788	849971	1-290	15-304	AA363989, N29578, AA800029, AA503258, AA605032, T93015, H96730, AA828042, A1633007, AA501809, R50197, H47539, AA603445, AL044858, AP000493, AL078624, AC020663, AL135744, AL049780, AC009405, AL049694, AL121595, AC005225, AC005829, AC004975, AC004526, AC006530, AC016830, AL031447, AC002985, AP000555, AC004919, AC004685, AC004972, AC005231, AC002395, AL049653, AL078614, AF111170, AC007050, AC005488, AF165926, AL022326, AC003982, AL035415, AL031587, AL035699, AF134726, AL031577, U95742, AC006285, AP000556, AP000557, U91321, Z98172, AP000567, AC003101, AC005544, AC016027, AC006441, AC007216, AC005747, AC005037, AL117498, AC004821, AC000026, AL035458, AL021918, AC004167, AC005821, AC005291, AC003002, AP000502, AL031665, AC008372, AC011311, AC007537, AL031767, AL049869, AC005355, AC006014, AC004185, AL021155, Z75407, AF124523, AC005081, AF111168, AC002070, AF048729, AC004678, AL034400, AC016011, AC002059, AC005245, AC007308, AD000092, AL031848, AC004150, AP000159, AC005772, AC007546, AJ246003, AC005740, AC002301, AC000085, AC005332, AC005015, AC003071, AC007676, AC004886, AC005324, L17418, AC004382, L44140, AL022329, AL133245, AL034420, AC005839, AC000052, AC002425, AC004596, AL096701, AC002303, AC006458, Z81308, Z95331, AL133243, AC006080, Z49236, Z99754, AC004825, AL031255, AC005500, AP000509, AC007536, AL132992, AF001549, AC004884, AC004491, Z93021, AC009275, AL109865, AC005874, AF134471, AC005776, D84394, AL049776, AC005326, AC005516, AL022315, AC007160, AB011134, AC006238, AL049811, AL035696, Z97634, AL118510, AC008394, AC006112, Z98051, AC007064, AC004963, Z75746, AC004262, AF205588, AC004890, AF196970, AL035587, AC004662, AL049830, Z99716, AL031295, AJ009610, AC002996, AC007199, U82668, U80017, Z75889, AC006487, AL034549, AL117351, AC006047, AC004659, AC002984, AC004777, AD001527, AC004019, AP001060, AL049825, AC005924, AL034451, AF196971, AC005540, AP001054, AC007066, and AC009516.
HCWBC71	789	784052	1-69	15-83	AA827967, and Z93783.
HCWBC81	790	849974	1-248	15-262	
HCWBDS4	791	706513	1-238	15-252	
HCWBE25	792	529216	1-127	15-141	AF150169, and AF111167.
HCWBE37	793	542403	1-307	15-321	Z54343, and AL109760.
HCWBE49	794	932196	1-406	15-420	
HCWBE51	795	782317	1-418	15-432	
HCWBE58	796	773587	1-161	15-175	
HCWBE69	797	723717	1-435	15-449	W45011, AI191804, AA773406, AA361071, AW402184, AA853510, AA314671, AW401537, AA345752, AA378756, AA346880, AA367230, AW405965, T80869, T72713, N23610, R19889, R94160, N55688, Z43415, R18379, W21269, AW403145, W19964, AA325636, AW401713, N57425, AA313360, N57316, W46199, AA670088, AA313277, AW160492, AW247594,

1620

HCWBE71	798	1 - 393	688011	15 - 407	AL035943, AW245750, AL035940, AW247213, AL036958, T08768, AA340025, AA295206, W22826, W22385, AW363955, W40348, AW402954, AA377322, R12313, W17327, R58256, N87501, AW366672, AI034239, AA204793, AI033895, D31767, and AF085348.	
HCWBE76	799	1 - 158	968515	15 - 172	AC006465.	
HCWBG06	800	1 - 60	954670	15 - 74	AW450440, AW444820, and AW301590.	
HCWBG30	801	1 - 289	920530	15 - 303	AI440268, AAS23203, AAS23204, AI114755, AI160875, AA506952, AW019964, AW265274, AA368329, AI609972, AI753536, AI635677, AI690335, AA807704, AL047480, H40478, AW237905, AA551204, AA837771, AW029626, AI749306, AI888050, AL048002, AA351868, AI982994, AW341955, AI114645, AW263867, AL041895, AI453160, AI564294, AA831997, AA632765, AI471467, H87756, AA629939, AI348780, H43183, AI799421, N45056, AL042373, AW169469, AA320521, AA653291, AI378437, AL118998, AI750692, AA635433, AA683069, AA604797, AI800345, AA642289, AA207147, AI345394, AW023376, AA788904, W27084, N22501, AI671077, AI929298, AI929825, H15241, AA670108, AA741301, AW007424, AA225100, AW157180, AA827383, AI537480, W96522, AI915068, AI114543, AW197926, AC004686, AC004242, AL031662, AC006312, AC005355, AC005189, AC005081, AL021917, AC005338, AC005736, AB023051, AP000512, Z83826, AP000501, AC007510, Z84481, AC007363, Z83838, AC007488, AC007225, AL079295, AL139054, U96629, AP000125, AC006549, AC005821, Z93023, AL031286, AL117694, Z82244, L13176, L77570, AF024534, AP000252, AP000098, AF064866, AC005969, AC005899, AC007285, AC005212, AP000515, AL133289, Z97832, AP000212, AP000134, AC000134, AC002395, AC005772, AC005231, AC005183, AC007151, AC012384, AC002302, AC005911, AP000031, AF031078, AL136297, AC005940, AP000558, AC004253, AF029308, Z98308, AC005086, Z85996, AC004596, AF030876, Z98941, AC007688, AC005952, AL117391, AC005778, AC002347, A1246003, AC006070, AC005412, Z79997, AP001053, AL035405, AL035587, AC005972, AC004030, AC007387, Z97352, AL022336, AC004913, Z97053, AL078611, AC005902, AL049872, AC004531, AC004973, AC004813, AC005670, AL109984, U29953, Z97184, AL031284, AC002563, AP000014, AP000692, AF113694, AL117344, AC005839, L78810, Z98743, AC004779, AL031686, U55184, AL109628, AP000172, U62631, AF050154, AC012085, AP000057, AP000355, AC007617, AC007226, AL031311, AC005358, AC002527, Z81369, Z95115, AC007025, AC005271, AP000502, AC005529, AC005358, AC005358, AC006120, AL031985, Z98256, U91318, AL049631, AC000094, Z84484, AF111167, AC002350, AC006120, U43572, AC004912, AC007455, AC006111, AL121652, AL022318, Z99716, AF053356, U43572, AC004912, AC007455, AC006111, AL121652, AL035681, AC000097, AL034451, AP000553, AL049845, AL009172, AC005181, AC006547, AC005218, AL035398, AC004611, AC005565, AL021391, AL022238, AC020663, AL035685, Z84483, AC004999, AC004967, AC002984, AF129756, AC003070, AL031123, AB014085, AC004187, AL031282, AC006571, AC003972, Z83844, AL050348, AL121603, AC007041,	

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HCWBG40	802	676588	1 - 540	15 - 554	AA046906, AA157876, AA047057, AA017583, AA019793, AI469089, AA661583, AI872229, H62123, AW150209, AI452836, AI521019, AI469485, AI567676, AW243817, N74555, AW117860, AI253347, AA587835, T03928, H68343, AI358505, AA557508, AW273201, AW273146, AI570067, AI819419, AA572813, H82594, AA768079, AA640305, AL050318, AC007537, AC007421, AC007637, AL096775, AP000512, Z98884, AC002126, AC005529, AP000501, AC000353, AL109758, AC006511, AC007536, Z83844, AF001549, AL050307, AC004031, AC004491, AC004922, AC003684, Z93017, AF053356, AC002470, AL121603, AC004000, AC004805, AC006449, AC005694, U95742, AC005527, AC005488, AL021391, AB001523, AC007216, AC002544, AP000116, AC005484, AC005399, AP000555, AC005274, AC012384, AC004686, AC004477, AC005632, AC006071, AL031295, AJ011930, AC004890, AC005067, AB023051, AC005519, AC007055, AC006071, AL031295, AJ011930, AC004890, AC005067, AC002044, AC005971, AC004099, AC004659, AC004985, AC005695, AC004913, AP000114, AP000046, AC006487, AC004859, AC004876, AL020995, AC006125, AL031680, AL035072, AC005911, AC006344, AL031311, AL049694, AL031276, AF207550, AC007787, AC002425, AC004647, AL109984, AC005412, AC004878, AL050341, AC005231, AC007226, AL096703, AC004552, AC006241, AC004887, AC002310, AP000065, AC005913, AC004765, AC003086, AF001550, AC006130, AL021878, AC005358, AP000502, AC005913, AC004765, AC003086, AF001550, AC005531, U85195, AC004854, AF196969, AL078581, AP000088, AC006571, AP000133, AP000211, AC004983, AC007376, M63796, AC005037, AC000046, AL049759, AC000038, AE000658, Z98200, AC004019, AL031663, AL136504, AC005744, AC000025, AC005746, AC005015, AL096701, AL049795, AC004520, AL133246, AF196779, Z83822, AC004796, AL035659, AJ246003, AC006581, AC002418, AP000045, AP000113, AC006512, AL031681, AC005779, AL109952, AC004242, Z84469, AC020663, AC004929, AC016025, AL049780, AC005081, AP000302, AC006273, AL031594, AC006121, AC005004, AC004386, AL021977, AL034371, AC007686, AC006273, AL031594, AC006255, AF165926, AL049830, AL031733, AC002477, AF190465, AC002350, AL109628, AC006255, AF165926, AL049830, AL031733, AC002477, AF190465, AC004216, Z98742, AL008582, AP001046, AC005666, and AL009181.
HCWBG41	803	839014	1 - 283	15 - 297	
HCWBG43	804	689743	1 - 197	15 - 211	W60516, T39598, AI284640, AA557325, AI358229, AA916039, AW406755, AA513999, AI110770, AA826303, AW074398, AI205126, AA551509, AW274349, AI625244, AW023672, AW265385, AA483034, AW301350, AW301196, AW303196, AA720702, F35113, F36273, AI133164,

AI888518, AA559290, AW440810, AL138265, AI338443, AI064864, AW249224, AI802526, AI890928, AA610491, AW172727, AI053816, AI890570, AL036523, AA111909, AAS25416, AL040130, AI610920, F19258, AAS87604, AA995824, AI435544, AAS87256, AI281881, AW272758, AI016000, AW021747, AW023511, AL040913, AA831388, AA340960, AW301818, AI358343, F29989, AI568678, AA177061, AI653905, AW238278, AA601388, AA729264, AI799642, AL040547, AI133262, AL037554, AL079683, AI358571, F34460, AI608626, AA434484, AI287528, AJ471481, AL041368, AI955323, AI365988, AL042753, AW023389, AA501784, AI307426, AI962050, AW166815, AAS15051, AA654627, AA132450, AL048925, AI251002, AI929531, AW339687, AI679782, AL042420, T90248, AI623606, T08638, AW265294, AA904218, F27027, AA630352, N43757, AI635272, AW249835, AI339850, AI610159, AA828064, AI890923, AW162049, AW168342, AI859251, AL134972, AW361583, AI446464, AI037914, AI567674, AI003743, AW022379, AI904894, AA229785, AI653636, AI049722, AI273185, AI561255, AI917271, AW440836, AAS81903, I51997, AF015167, X75335, S75201, M37551, U12580, AC000159, U12582, U14719, U14718, U14717, U14716, U14714, U14715, U12583, U14713, D83989, Z22650, U14711, U14712, AF077058, U14689, AF015158, AF015170, M87918, Z49816, AF015168, AF015169, AC005385, AP000103, AC000955, U14685, U14686, U14687, U14688, U14691, U14699, U14710, U95740, L35531, AC000951, AP000140, AF015166, AC002542, AC005887, AF146367, AI39972, Z98052, D26067, L81759, AP000193, AC006049, Z68269, AC006344, A39972, Z98052, AL031577, AL031274, AC006128, AP000088, AF134726, AC001530, U14692, U14702, U14707, AC004913, AF001552, Z81365, AC002377, U73684, AB023056, AL110150, AF165176, AP000311, AL022322, AC005156, Z74696, U02054, AC002492, X01471, I08362, AF090944, AL121603, AF124523, Z69921, K02043, AC004506, AP000117, AC001164, X79609, AC005682, AF036682, AF015160, S75337, AL024474, Z98750, AF015171, AP000954, X04981, AC004494, AL110292, AC004915, U50570, AC006487, U02048, AC005031, AC004866, X88791, I25678, AC008115, AP000513, AC004477, AL050338, AC004785, AC005401, AF126531, AL031720, AL031009, AL080242, AL031005, AL022326, L08835, AL096862, AC005015, AC005755, AL021878, AC007367, AC007055, AL136297, Z98257, AB023049, AF120990, AF196969, AF078904, AP000355, AC012384, AC006285, AF141976, AC005594, Z97183, AC006449, AL035458, AP000459, AL034452, Z73496, U80017, AL034420, AC002314, X74558, AP000958, AP000111, AP000043, AC005585, AP001037, U49740, Z84814, U14700, AC016025, AC004745, Z85997, AL049843, AC004990, AC007637, AC004150, AP001054, AC005356, AC002115, AC006539, AC002072, AC005086, AC003070, Z83819, X06123, AL023494, AC005484, Z98744, AC005911, AC004492, AF019114, AF010317, AL132777, U62317, AC004241, X60653, AC007774, AC005787, AC006030, AL049830, AC005765, Z93244, AL021069, AC004984, AC006063, AC004485, AF190465, AL035460, Z98941, AC007392, AL110502, Z95113, AC005280, AP000365, AC005228, AL031120, AP000349, AC005754, AC000080, AL049836, and AC004263.

HCWBG77	805	529229	1 - 279	15 - 203	AA528467, AI865264, and AI267855.
HCWBG91	806	789318	1 - 118	15 - 132	AC002316.
HCWBI17	807	954153	1 - 171	15 - 185	
HCWBL24	808	529211	1 - 112	15 - 126	
HCWBI37	809	967717	1 - 335	15 - 349	
HCWBI53	810	934909	1 - 375	15 - 389	
HCWBI77	811	529238	1 - 217	15 - 231	
HCWBI90	812	921653	1 - 342	15 - 356	
HCWBJ02	813	917300	1 - 408	15 - 422	
HCWBJ27	814	784524	1 - 128	15 - 142	
HCWBJ61	815	849967	1 - 320	15 - 334	AI022328.
HCWBJ66	816	529228	1 - 87	15 - 101	
HCWBJ75	817	935579	1 - 470	15 - 484	AI809175, T53160, T53159, AA284460, AA995373, AI355246, AI634377, AI926393, AW089625, AA846923, AW008184, AA226356, AI283938, AI366180, AW272815, R67701, AI357762, AI434653, AA856815, W45274, N66775, AA084504, F35684, AI690379, AW104161, AI697239, AA526643, AI697242, AA558366, AI697235, AA535216, AA484022, AA555232, AA714110, AI473671, AW192419, AI869797, AI961983, AA584756, AI417469, AI859906, AA568314, AI753904, AI568376, AW419389, AA728874, AI927275, AA838161, AI932871, AL041375, AI800426, AI281818, AI431513, AA655037, AA181917, AI817658, AA558404, AA613850, AI678581, AI370170, AW020150, AI521525, AI689198, AA654464, AI517368, AI858889, AA582746, AI053398, AA491423, AW303872, H71678, AI687972, AA297961, AW249660, AA290570, AI299442, AA610433, AI538236, AW265688, AA581240, F09357, AA601712, AA270647, W72860, AI888298, AI491765, AA642809, AW028950, AA515048, AW238341, AA115865, F30158, AW019964, T47138, AI926102, AA488687, AI612724, AI476460, AA523695, AA814503, AC005274, AC008072, AC002316, AC003663, AC004139, AC004884, AC012384, AC005288, AL022165, AC005291, AC005082, AC002554, AL008718, AL022162, AP000466, AC002504, AL035587, AC002410, AL035460, AL049776, AC007298, AC005914, Z82203, AC007384, AC005369, AC002404, AL135960, AJ131016, AC003687, AC003046, AC007536, AC012302, AL109827, AC005046, AP000156, AC004448, AP000501, AC007055, AC002378, AC014242, Z93023, AL049539, AC006312, AP000555, AC008040, AL133312, AL109653, AC005393, Z98304, AC005280, AL049780, AL133448, AP000033, AC004263, AC006011, AL049872, Z84474, AL022398, AL031777, AL035422, AC005624, AL022319, AC004882, AL035405, Z93241, AL031005, AC002477, L43411, AL031293, AL031121, AF178030, AC005058, AC004841, Z98048, Y10196, AL109618, AC004801, AF226686, AJ246003, AC006581, AC007151, AP000014, AC004686, AC005920, AL133275, AL049576, AC103108, AL132718, AC004706, AL022318, AC005529, AL133500, AC005952, Z98044, AC004887.

HCWBI81	818	849977	1 - 165	15 - 179	AC006023, AC005516, AC002492, AC005377, AC004655, AL078638, AL031427, AC005932, AC000029, AC005859, AC003043, AC005971, AL031678, U07563, D87675, AC005066, AL121603, AC003690, AP000704, AC007263, AC005620, AL049697, AL031662, AF038458, AL021917, AC007666, AL022322, AL009181, AC007731, AC007785, AP000121, AP000053, AP000168, AL117338, AC002116, AL034408, AL034376, AC005500, AL109839, X06292, AC005164, AC005229, AC006061, AC002310, AC002476, AC007388, AL022721, AC006473, Z83846, AC003661, AP000226, AC005800, AC005031, AC006084, AP000087, AF124523, AC004913, U85195, Z83844, AL035694, AF118808, AC005332, AL049793, AL021579, AE000658, AC005015, AC007216, U47924, AC004999, U80017, AC012627, AP000049, AP000116, AL122020, AL035684, AC005519, AC006511, AC003004, AC005736, AC002312, AC004150, Z98884, AL031587, AP000493, AC009731, AC005005, AC008101, AL049838, AC016831, AP000084, Z95116, AL022323, AC006370, AP000311, AC005209, AC005632, AC000085, AC002350, AC005722, AL021707, AL096763, AC004964, AF001549, AL080243, AL021918, AC002119, AL049869, AC005057, AF048729, AP000088, AC004787, AC005201, AC003041, AC007690, AC008126, AL034423, AL049743, AC004103, AC007421, AC008079, AL137100, AL049745, AL099172, AC005691, AC005277, AC004685, AB023049, AL035420, AC007324, AL021546, AC005231, Z99716, AC003029, AC005486, AP000552, AC004386, AP000359, AL031311, U91321, and AL049834.
HCWBI86	819	719521	1 - 380	15 - 394	
HCWBL38	820	935481	1 - 336	15 - 350	AA373861, AI381490, AW128881, AA554659, F01222, AI049701, AA496309, AA888638, AA757869, AI354333, AA661883, AA298192, AA225358, AW080215, AW022897, AW132097, T30864, AL035893, AW277135, AA295874, AA295865, AI866971, AA206594, AI146266, AW249720, AI889426, AW410481, T94592, N24836, AA352521, AC004139, AL031667, AC005880, AC006077, AC004933, AC006463, Z84487, AC005060, AL035079, Z98884, AL023798, AC002425, D63861, AC004500, Z98941, AL021391, L62292, AC005828, AL049779, AC008928, AC005332, AP000065, U63721, AC016027, AF027390, AL035658, AC016830, AC005102, AL031276, AC005231, AL132712, Z98946, AC002477, AC008101, AP000305, AL031407, AC005523, AL031801, AL109628, AC005899, AP000047, AP000326, AC005763, AC006509, AP000053, AP000168, AL096808, X14278, AL049643, AP000054, AP000169, U47654, AC008009, AP000501, AL109801, AC008372, AC009501, AC005755, D87675, AL109627, AP000513, AP000324, AL109801, AC005877, AC007011, AC005280, Z76735, AC007285, AP000116, AC005375, AB023049, AC006057, AL035685, AC005071, AC005300, AC004985, AP000116, AC007869, AF064756, AC004738, AC016026, AC005291, U91323, AC002107, AL023553, AC004491, Z95570, Z93241, AC018769, AC006254, AC007172, AC004975, AL035249, Z93017, AC005261, AC006441, AF003529, AC005028, AC004230, AC004973, Z85996, AC005666, AC005295, Z82206,

					AB015355, AC006079, L78833, Z49236, AL022238, AC009399, AC000394, AC005971, AC005632, AC003007, AC003108, AC002106, AC006211, AC005014, AL132708, AC005998, AC007786, AL031685, AC002492, U78027, Z83838, AP000008, AL023575, AC002554, AC004605, AC004841, AC004851, AL021528, AC006010, AL133163, AC005696, AL050318, AC006501, AL096791, AP000212, AP000134, AL031662, AC007041, AP000512, AL035422, AC005875, AC004913, AC005328, AP000122, AL049692, Z83844, AC005914, AC005015, Z98200, AC006449, AP000359, AL078581, AC002395, and AL135960.
HCWBL41	821	666457	1 - 372	15 - 386	R20206, T82390, T48770, AL039515, W07542, AA757646, N54937, H82873, AA847341, AA525156, AI791408, AI791720, AI049999, U91323, AC007546, AC005354, Z98946, AC004983, Z84474, AC006344, AB001523, AL031311, AC006354, AP001054, U70065, AC005696, AC002492, AC004771, AC003006, Z84480, AC006064, AL035086, AP001052, AC004914, AC007421, AF053356, AC004825, AL031577, AC050089, AL031587, AF007876, AC006512, U91327, Z61071, AC005529, AC005839, AC004797, AC002077, U78027, Z85987, AF165926, AC005288, AC004383, AC006332, AP000133, AP000211, Z86090, AF196972, AC004692, AC004674, AL049776, AL035422, AL049795, AC004883, AL008731, Z97987, AC004967, AC005746, AF023268, AC005372, U45945, M81181, AC004638, Z82190, AC005527, and AL133448.
HCWBM04	822	861842	1 - 329	15 - 343	AC002464, Z85999, AF002223, AP000033, AC004253, AP000102, AP000260, and Z97196.
HCWBM50	823	577712	1 - 347	15 - 361	
HCWBM95	824	849912	1 - 386	15 - 400	
HCWBN06	825	924638	1 - 360	15 - 374	
HCWBO10	826	842038	1 - 331	15 - 345	AC007130.
HCWBO23	827	964590	1 - 165	15 - 179	AC007162, and AC005212.
HCWBO94	828	574861	1 - 361	15 - 375	AF205588, and AL024498.
HCWBP27	829	684336	1 - 317	15 - 331	
HCWBP56	830	733662	1 - 303	15 - 317	AW022796, AA847341, AW023390, AI308529, AI554399, AW029626, AI888050, AL119063, AI307563, AI520925, AI475294, AA358531, AA496941, AA935827, AA687084, AI076729, AA419014, AI002863, AI446574, AI867012, AI571894, AA661554, AI798521, AI571094, AW070901, AI860648, AA084320, AA525156, AA768179, AW129188, AA632355, AI752977, AA218684, AA581317, AI049680, AA446931, AA196994, AI805699, AA834891, AI805373, H05066, AA761454, AA171400, H24331, T52366, AW338376, AI805556, AI890297, AA419107, AW131109, AW190437, AI734076, AI732102, AI732101, H23238, AI734075, AA828840, AA551548, AI445338, AI572680, AA749196, AI124558, T07943, AA772818, AI802268, AA873661, AA484191, AA524846, N55076, AA832108, AI003086, N59248, AA436949, AI343808, AI149177, W27084, AI570067, R79396, AA496042, AI363336, AA428991, AI000314, AI361401, AI174827, AI202777, AI114645, AA385652, AW362702, AI207534, AI668566, AI921744, AA513916, AA420703, AA225566, AA225494, AI446618, AA632556, AJ434103,

| HCWBP70 | 831 | 757467 | 1 - 370 | 15 - 384 | AA229030, T47075, AA363957, AI733523, T03613, AA778580, H94598, AI884404, AI049504, AA584360, AA632765, AI961264, AI354377, AL038533, AI471467, AW169469, AA078830, AI925812, H59797, AI281622, AL137946, AA018258, H64884, H64858, W04260, AA551030, H59856, AA736713, AA469230, AA743995, AA745336, AA364147, H87818, AW007424, AL133448, AI049869, AC005755, AC005377, AC005837, AC005911, AC006163, AF139813, AC005412, AC003108, AC002316, AC005808, AC004228, AB023048, AC006449, AC005543, U82828, AC004081, AC007566, AL031284, AF038458, AL096701, AC005520, AC005225, AL022238, AL035658, AC005280, AL109758, U91323, AF001549, AC004851, AC005787, AC005516, AC007938, AC004884, AC007011, AC004812, AD001502, L78833, AP000510, AC006261, AP000692, AC005046, AL133246, U80017, AC004686, Z84721, AC007388, AC005932, AL022316, AC004067, AC005632, AC004985, AC005488, AC002331, AC002369, AC005971, AC005772, AC004991, AC007066, AC002350, AC005102, AL034431, AC005031, AC006948, AC005484, AP000511, AC006088, AL023883, AC004938, AC006946, AL031589, AC002465, AC004447, AL117258, AP000355, AC005104, AC004638, AC006064, AL132712, AC005406, AC005553, AC005071, AC004999, AC009509, Z95113, AC007014, AC005181, Z95703, AC010077, AL049745, AC007666, AC005530, AC009089, AL049569, AL079342, AL031311, AL022322, AC004816, AL009179, AL049778, AC000353, AL080243, AC005324, AC007688, U89337, AJ229041, AL031296, AC003689, AC006062, D87675, AL121603, AL049839, AL133371, AL049694, Z83822, AC007546, AL021453, AL050317, AC007462, AC007314, AC007312, AC005409, AL031282, AC007227, AC005846, AC003025, AC006487, AC007676, AL020997, AC004032, AC005600, AC006441, AL008716, AC004099, AC005399, AF152365, AL031681, AL031291, AC000070, AC003006, AL122020, AC002543, U91326, AC002079, AC002563, AL035458, AL050318, AP000089, AP000141, AC005375, AC007877, AL137100, AC002073, AL023880, Z98950, AC006315, AC006512, AL033397, AC005355, AC005529, AC005803, AL021578, AC002044, AC003992, AC006166, AC005730, AL109798, AL031985, AL049757, AC006075, AF165926, AC006509, AC006539, AL135960, AJ131016, AC004968, AC005694, AL132826, AC005663, AL035072, Z99716, AC005206, AC006116, AC020663, AC002530, AC005533, AC004491, AF030453, AL049646, AL033521, AC009396, AC003688, AL031666, AC005821, AP000152, AP000065, AC009247, AL035086, AB023051, AC003086, AC002059, AL021394, U91322, AL096791, L44140, U47924, AC006597, AC005667, AL136295, AC007201, AC007632, AC000105, AC005779, AC035587, Z75407, AL049780, AP000035, AF011889, AL139054, AL008635, AL031587, AF109907, AC006101, AC004020, AC008984, AB019441, AC004226, AL031587, AC006101, AC005326, AB023049, AC004695, Z97876, AC008012, AC005915, U66059, AC003007, AC006014, AC005666, AP000512, and AC005255. |

HCWBP74	832	765881	1-319	15-333	R59942, AC002301, AP000045, AP000113, AC005399, AC007327, AP000510, Z84469, AC004520, AL133163, AL035079, AC006163, AC004032, AB023048, AL031311, AC003030, AC005081, AC006461, AC004938, AC002039, AC002544, and U91326.
HCWBP85	833	849969	1-365	15-379	AA564671, AC002045, AC002039, AC002544, and U91326.
HCWBQ03	834	920886	1-330	15-344	
HCWBQ36	835	557873	1-324	15-338	
HCWBQ70	836	706526	1-373	15-387	
HCWBQ74	837	526537	1-356	15-370	AW242031, AW340905, AL039109, AI446336, AA018923, R33091, AA224525, H40324, AA012829, AL042310, AW029251, N30205, AA689351, H56703, AW440368, N41775, AA825185, AI679221, AA827096, AA609826, AI307565, AI271762, AC004814, AL049653, U91326, AC004777, AF047825, AC005231, AC006236, L78810, AC004000, AC007435, AL049569, AC005332, Z85987, AC002996, Z84480, AL133245, AL022336, AC005899, AC005519, AP000501, Z98742, Z97630, AL022163, AC002312, AC005527, Z98941, AC004216, AC002470, AL022313, AC009516, AL080243, AC005031, AC004686, Z85986, AL020993, AP000116, AL031284, AC006057, AC004832, AL031666, AC005180, AP000512, Z97196, AC003101, AL136295, AC005520, AL033392, AC006480, Z98304, AC005015, AC005745, AC006344, AL022721, AC004890, AC002365, AL023575, AL109839, AC009946, AC004019, AL316680, AC003950, AC006468, AC020663, AC003108, AC005921, AL117344, AC005037, AC007225, AC005529, Z98743, AC005207, AL121652, AJ003147, AP000558, AC004841, AL021392, AP000050, AD000092, AC004884, AP000117, AC005944, U96629, AC004854, AL021147, AC007216, AC005086, AC006211, Z86090, U29953, AC005944, AC007666, Z84487, AC007308, AC005300, AC005828, AC005102, Z93241, AP000555, AC007421, AC008372, AC004752, AC007277, AF196969, AC005412, AC005399, AC005081, AL022316, AC008044, U62292, AL109657, AC004882, AC006111, AC002477, AF111168, AC005512, AC002301, L47234, AL132712, AC005071, AF196971, AL035086, AC004491, AC005702, AC002544, AL096701, AC006538, AC007993, AC005305, AC004659, AC005695, AC005695, AC006965, AC004492, AC005619, Z97183, AF205588, AC000134, AC007283, AL049843, U52112, AC004447, U91321, AC007546, AL109963, AL139054, AL117330, AF003626, AL021154, AL035659, AC005747, AC005225, AC005924, AL022165, AL049759, AC004859, AC005409, AL122020, AC004985, AC003982, AP000556, Z95114, AL035587, AC002375, AC005274, AC005089, AC005725, AL049694, AC007687, AC004099, AC005058, AP000690, Z83844, Z99755, AP000689, AF015416, U91322, Z99128, AC003041, AC002316, AC004878, AL021391, AC006257, AC003098, AL049780, AC005082, AL022311, AC006487, AL096791, AL009181, AC007226, AF165926, AC005914, AC003009, AL050308, AC002072, AP000952, AL024474, AC005778, AJ246003, AC002314, AC004638, AL034417, AC007774, AL031007, AL121658, AC005046, AL133371, AC005971, AC003042, AL050318, AC004887, AL021878, AP000300, U34879, AC004552, Z98752, AC007055,

HCWBQ88	838	527694	1 - 310	15 - 324	AC004167, and AF196779.
HCWBR06	839	527692	1 - 424	15 - 438	AA234213, AL078621, and Y13478.
HCWBR89	840	967726	1 - 401	15 - 415	AA912663.
HCWBS66	841	574850	1 - 120	15 - 134	
HCWBS67	842	842037	1 - 370	15 - 384	AI281474, AI187148, AI050076, I344899, AA446645, AI809972, AA653139, AA584765, AI624067, AA342238, AA526643, AA598738, AA805029, F24745, AA456149, AA568314, AA193205, AI090334, H28545, AI358542, AA302661, AA648605, AA570441, AA482928, T71936, AW083706, AA225630, AA808998, AA183937, AI494417, AW419389, AA847099, AI119010, AA112924, AA020788, F30650, AI283938, AA443727, AA425924, AI354333, AL134278, AW167330, AW051288, AI366555, H25302, H67064, AI620415, AI858889, AA525407, AI636734, N73060, AA664126, AI955873, X69907, AC004893, AP000501, AP000103, AC004106, AL031281, AL035405, AC005089, AL049604, Z99128, Z97056, AP000269, AP000555, AC007435, AC004217, AC008126, AC003041, AC006965, AL035658, AF049895, AF111168, Z82244, AL049830, AF002223, AI031905, S42653, AL035458, AC004985, AL031432, AC007993, AC004526, AL033527, AL022336, AC004843, AL035079, AC004805, AC005755, AL034549, AL139165, AC002565, AF047825, AC005261, AF196969, AC007685, Z95152, AC006966, AL031685, AL079295, Z83309, AL009172, AL031589, AC005913, AC005535, AL031673, AL049872, AL033518, AC005874, AF134471, AC005479, L78810, AC005828, AL078638, AC005924, AC005372, AR023048, AC004859, AC006026, AF207550, AC005901, AE000658, AC004491, AC002477, AC005632, AC007308, Z93017, AL049591, AP000300, AC006121, AL008718, AF134726, AC005933, AL096701, Z81369, AL096766, AP000032, AP000113, AP000045, AC003956, AC007225, Z99716, Z82190, AC005921, L05367, AC007358, AC002073, AL031777, AC006601, AL035659, AC007298, AC008064, AC004148, AL031657, AC002470, AC006023, AC009516, AC004973, AC007216, AL133246, AC005231, AL049569, AL050348, AC005881, AC002994, AC004584, AL031120, AC006487, AC005531, AC007386, AC002314, AC006449, AC005520, AP000040, AC003982, AL022238, Z94056, AC002425, AC005233, AC004841, AC004821, AL031291, U95743, AC005409, AC004522, AC005082, AC004531, AC004841, AC004884, AL031289, D87675, AL008730, AP000355, AC007192, AC005328, AL035530, U85195, AC006344, AC006146, AC006239, AC005914, AL034371, AC020663, AL109801, AC007276, AC006058, AC005740, AC006050, AL080243, AC003071, AL022316, AC005971, AC000353, AC000070, Z94801, AC007327, AC004024, AC007237, AL035071, U91326, AC004983, AC005821, AC010205, AC005696, AC005014, AL133243, AC004223, AL022323, Z83838, AC000159, AL022322, AJ010770, AC006960, AL049776, AL049636, AC005730, AL109984, AL050307, AC006241, AC002350, AC006505, AC004762, AL121934, AC005220, AC002347, AL009181, AL049589, U91318, Z84469, AC006581, AC005015, AC006509, AC006299, AL024507, I34294, U95741,

HCWBS96	843	954028	1 - 464	15 - 478	Z78021, AC004889, AC007450, AF001548, U80017, AC006538, AC002992, AC012099, AC005295, AF196970, AC004167, AL096791, AC000118, AC005609, AC008039, AC007488, AB023050, AF103804, AP000014, AL049869, Z98885, AL031005, AC005037, AL135744, AC005225, L44140, AL132987, AC002381, Z83819, AC004017, and AP000143.
HCWBT30	844	523249	1 - 340	15 - 354	
HCWBT31	845	720016	1 - 283	15 - 297	AA897291.
HCWBT48	846	527676	1 - 139	15 - 153	
HCWBT86	847	927506	1 - 316	15 - 330	
HCWBU09	848	527562	1 - 279	15 - 293	
HCWBU24	849	861864	1 - 371	15 - 385	
HCWBU49	850	850014	1 - 402	15 - 416	AL118817, AA425283, AI360368, N27737, AI224583, N62478, AI567976, AI446424, AA493464, AI753131, AA506544, AW085751, AW270287, AA659303, AA330435, AL119123, AI355572, AA595661, AL048969, AI690379, AA515165, AW169183, AI310670, AI754064, AW409621, AI349130, AA372958, AI038990, AA524604, AW086015, AA489390, AI042731, AA382435, AA662982, AJ751698, AL134338, AA631915, AI744890, AI540319, AI044438, AAX62218, AL039436, AA630476, AI935827, AA640305, AL042336, R43468, AL044458, AA648942, AA280886, AI014872, H05742, AI439525, AA181705, AW084152, AI174703, AA720594, N73337, AA360494, AA167178, AF114095, AW275788, AA303588, AD000092, AC002433, AC005081, AC004477, AL031228, AL021391, AL096791, AC005048, AC005516, AC005004, AF129756, Z97056, AP000359, AL035422, AF217403, AC005664, AC006479, Z82208, AL035420, AC005546, AC009336, AC006547, AL133448, Z82244, AC004686, U78027, AL022313, AC007057, AL049872, AC006581, AL021393, AP000505, AC007021, L78810, AC007242, AC002551, AL035413, AL035682, AL139054, AL121769, AC004099, AF195658, AC005201, AC003969, AC007055, AC007686, AL049709, AL035603, AC007093, AC000007, AL031122, AC005828, Z98048, AC000075, AC005726, AC007397, AC004000, AL136295, AC005519, AC002985, AC000211, U91325, AL078639, AC005670, AP000961, AC007535, U91318, L44140, AP000133, AP000211, U91326, Z79488, AC003109, AC007436, AC005907, AC006530, AC002126, AC004159, AC003042, AC005391, AL031281, AC005821, AC012330, U47924, AP000140, AL078581, AP000280, Z15025, AC005808, U71148, U91327, AC004998, Z93017, AC004805, AC004802, AC009946, AF111168, AL022476, AL049780, AL008718, AC004973, AF015416, AC006511, AL031774, AL031282, Z93244, AL133312, AL034395, AP000088, AF007546, AF030876, AC010077, AL031774, AP000107, AP000039, AL021308, AC005261, Z84497, AC007546, U73647, AC004929, AL096763, AC005215, AC005694, AF196779, L7883, AL024507, U73647, AC004929, AL096763, AC005082, AL021308, AL050323, AL035494, AP000124, AP000056, AP000171, AC004522, AC005089, Y14768, AC003102, AC007785,

HCWBU72	851	668350	1 - 540	15 - 554	AL133382, AL031259, AL008710, AC003077, AL121657, AC005011, AL135744, AL035419, AL031680, AC005057, AC005911, AC005412, AF141308, AC005839, AC005793, AL117694, AC006468, AL021937, AC004903, AP000114, AP000046, AL022326, AC006139, AL008726, U80459, AL035460, AL133245, AL049776, AL034548, Z83847, U85195, AC005323, AL034379, AL023281, AC004213, Z86061, AL022723, AC004671, AF001550, AC005736, AC006255, AP000210, AP000132, AC002039, AC005335, AC007227, D88271, AC005369, AE000658, AL034417, AL031845, AP000228, D87022, 2nd AL132987.
HCWBV09	852	746335	1 - 366	15 - 380	AL042853, AA503947, AA349854, F33121, AA366035, AA369477, AA318652, AA513999, AA508509, AA846981, AA341228, F19258, AA657458, F29989, W07032, AA559290, AA483034, AA724230, AI284583, AI358229, AA558697, N66067, AA310158, AA878495, AA363501, AA662974, AA515435, AI365988, AW406755, AI921188, AA371568, AA364193, AA723017, T66105, AW193546, AW339687, F36373, AA658235, AA557879, AI635272, F26152, AA780929, F36273, AA737154, AL120502, T07346, AA683037, AW270270, H58672, AA828680, T40077, AA828826, AL137954, AI357288, N41759, AL036854, AA092739, F24284, AA345333, H77900, AA580889, AL137954, AI357288, N41759, AL036854, AA092739, F24284, AA345333, H77900, AA932099, AA618002, C05986, AL079843, AL118911, C17838, AI745325, AI623898, AI246119, AA626747, AI431688, AA065087, R44592, AA301813, AI565245, AA662017, AW089789, AA313016, AL037554, AI439360, AA372106, AA654322, AA148489, AI284640, AI688928, AA159978, R13151, AA639270, T25706, AW193295, AW338086, AL041382, AI955323, T29180, AI624698, AA339187, AI792864, AI818620, Z97053, AP001053, AC007285, AL022717, AL021918, AL121934, AC005632, AL121658, AL031736, AC007536, AL109799, AL049757, AC005215, AL022318, AP000034, AP000101, AL008629, AL034548, AC005803, AL133312, AC004740, AP000301, AP000045, AP000113, AL035413, AC004010, AL078602, AF039906, AL117328, AF055066, Z82182, AL121603, Z75890, L78833, AP000141, AP000089, AC004884, AC004066, AP000264, AL035684, AC008115, AL023281, AC005180, AC007283, AC007312, AL021939, AB023049, AC004600, AC000353, AL020993, AC004890, AC004712, AC007773, X77531, D87675, AP000031, AC005856, AC002377, U47924, AC004049, AC008109, AL023803, AC023803, S78429, L44140, AP000031, AC005015, AL109984, AP000692, AC006449, AC005722, AC004470, AL031664, AL022394, AC008109, AL023803, AC006965, AC008984, U82668, AL049776, AL109939, D83737, AP000144, AL008636, Y10196, AC006965, M87918, AF109907, AC004941, AC005911, AP000555, U96409, AL031650, AF190465, AC002485, AC006312, AC005399, AF108083, U95740, AP000431, AL035448, AC004797, AC004797, AP000350, AC002316, AL035410, AC007848, AL109628, Z98950, AP000352, AP000252, AP000350, AC005625, AC005324, AC005944, AC005081, AC005829, AC020663, AC007666, AC006019, AC005625, AL035415, Z99756, AC000052, AC002996, AC006071, U75931, AC005696, AL121915, AL035415, Z99756, AL035461, AC005251, AL049872, AC005332, AL110292.

				Z98742, AC006552, AC016026, AC006285, AC004087, AC000067, AC005355, AC005799, AC005486, AB023051, AL133448, Z84718, AF067844, AC005184, AC004542, AC004477, AC012085, AC005998, AC016025, Z82185, AC006088, AC005208, AF044083, AL049829, AC005204, AC007226, D16583, U66059, AC004913, AP000134, AP000212, AC004020, AL031591, AP000194, AL035464, AC007537, AL079305, AL008582, AL080243, AL033376, AC000085, AC002558, AP000048, AC005703, AC005071, AC005370, AC000120, AL031733, U18400, M37551, L47234, AL035455, AL021786, AP000088, AC006077, AL132992, AL031283, AC004834, AC005212, AC004933, AC004703, AC002349, Z82244, AP000351, Z86062, AP000556, AP000557, AC007563, AC004902, AC005231, AL049712, AP000553, AC006149, and AF111168.
HCWBVS1	853	1 - 315	725889	15 - 329	F00252, AL134669, AW328050, AI500151, M77984, AI590442, AA533653, AA094109, AA298531, AI832674, AA601376, AI821892, AA380324, AI355414, AA640519, H53169, AW029299, AA655026, AA693484, AI053673, AA601908, H86105, AA621838, N23229, C14262, AL133668, AI818067, AC006023, AC006312, AC005049, AL080243, AC012384, AL078638, AL049829, AL023575, AC005081, AC004854, AC005363, AL049539, AL034420, AC005740, AC006285, AL049759, AL133246, AC007546, AL135744, AC004841, Z83846, AC005914, Z93023, AL031670, AC010206, AC007686, AC005180, AL133163, AL024498, U07563, AL049553, AC005736, AC002565, AP000114, AP000046, U80017, AC005697, AC003982, AC005759, AC005822, AF165926, AF196779, AL049636, AC003663, Z82176, AC002395, AC006453, U95090, AC002394, AC006071, AC005730, AC005004, Z84469, AL031591, AC005703, AC003104, AF109907, AC004659, AC004125, AC005082, AC005328, L78833, AL031848, AC006241, AC007842, U91326, AC010205, AP000697, AC005231, AL022165, AC003101, AL034379, AF129756, AC004383, Z95113, AC002310, Z93241, AC002306, AC005015, AL008718, AC005005, AP000248, AC004655, AC005512, AC004966, AC005846, AC005971, AC007277, AC004148, AC005821, AF053356, AC002350, AC016027, AC004019, AC004999, AC005829, AC005399, Z95331, AL021391, AL031427, AP000032, AL096791, AC004821, Z82184, AC004656, AL021917, U47924, AB003151, AC004686, AC007312, AC005722, AC002091, AC005746, AC002558, AF111169, AC007055, AC009247, AL049591, D87675, AC002544, Z75887, AC008044, AL050321, AC004032, AF047825, AC005409, AL021578, AC007690, U95742, AC004477, AC004167, AC004859, AL049776, AC005632, Z98200, AC002425, AL109758, AC004765, AC004526, AC004967, AL022312, AC005531, AC002347, AC005696, AC007057, AC000082, AL031287, AC005592, AC004858, AP000010, AC006275, AC004883, AC006480, AC007052, AL080245, AC007731, AL035458, AL139054, AC016830, AC005332, AC005288, AC004253, AC004797, AC007666, AL008582, Z85986, Z93020, AJ246003, AP000553, AL080242, AC005500, AC005529, Z84476, AC004914, AC007225, AL031311, AP000555, AC005189, AC002316, AL022336, AC006130, AC005057, AP000089, AC002476, AC004813, AC005482, AC006538, AL023553, Z84480, AC005922,

				Z98304, AF024533, AL049779, AC006111, AC016831, AC005606, AC005207, AC004983, AC005701, AC007216, AL034548, AP000689, AP000355, AC004884, AL035249, AC007537, AL109798, AL035086, AP000143, AC005578, AL049692, AL033397, AC006026, AL049795, AL022322, AL096775, AC002550, AC005071, Z85987, and AL117354.
HCWBV96	854	796584	1 - 396	15 - 410	AA554392, and AA372426.
HCWBX63	855	527081	1 - 117	15 - 131	
HCWBX65	856	970694	1 - 164	15 - 178	AW104748, AA280632, AA655004, R67365, W85752, AA557970, R95704, H05073, AA552726, T78484, AA806734, AA515051, AA461317, AA569743, R84309, AA604497, AA633266, AA774184, AA158328, R84303, R83929, H02135, W80462, AA160481, N40815, R69255, AA084337, AA130658, AA196706, R52163, AA720548, H80357, H73704, H86860, H02877, T94075, H64778, AA620464, H48636, W56203, R50087, AA483223, N71724, N57890, W16581, R92288, AA158301, AA171416, AA578251, AA858197, R66878, R84296, AA161083, R47822, R93576, W95939, AI191227, N87661, AA628602, AA721981, N20219, AA522942, AA810370, AA679009, AA602528, H80373, H80386, N53573, AA938225, AA190895, N70442, AA584751, AA159974, T49241, T71030, AA469021, AA601499, AA578017, AA020729, AA047296, AA669634, AA558616, AA112299, R32415, R41717, H79297, AA342914, AA644538, AA650271, R97634, AA527958, AA583394, AA634145, T53128, R91159, AA639248, R67504, T97558, AA521355, AA864983, AA126777, AA574110, H68999, H79151, AA773176, AA167643, AA664015, AA204718, AA721599, AA335972, R89511, AA224129, H11124, H49061, AA169194, W74484, T16056, AA459379, AA173071, AA824654, H08496, N25296, AA582911, AA873560, AA524838, AL133723, T92445, AA137017, F10924, AA663486, AA693484, AW402067, AA205915, H64805, AA226153, AA199616, AL035604, AC005900, AC000355, Z84718, AL035416, AP000351, AC004067, AC004804, AL033521, AJ006996, AL022165, Z97876, AC010072, AC003029, Z98304, AL096770, AP001170, AC006039, AC003024, Z92543, AC007406, AP001068, AC004531, Z83313, AC005162, AC007050, AC005535, AL031294, AC004949, AF146191, AC005823, AC006946, AC007751, Z73361, AL034451, AL132766, Z84487, AJ011930, AC007541, AC002454, AL035695, AL035415, AL109733, AP000049, Z99716, AP000352, Z98950, AL136363, AC008064, AC004626, AC004453, AP000354, AP000311, AP000355, AC005327, AC004051, Z84467, AC006026, AC003686, AC007842, AL022097, AL121823, AC002488, Z86061, AC008179, AL008710, AC002412, AJ006998, AE000659, AL049554, AC004996, AC004158, Z95118, AC005541, Z84719, AL031904, AC006975, AC004996, AL049554, AC007252, AL132985, AL078477, AC006369, AP000949, AC006115, AF047825, AP000515, AL035252, AL049844, AL049550, AL122023, AC005737, AL049838, AC004024, AC004140, AC004451, AC004140, AC007277, AC006120, AC007065, AC005597, AL035422, AC003082, AC006031, AC004059, AC002449, AL078621, AL109854, AC006352, AL022069, AC000047, AL031446, AC003973, AL096862, AB019437, AL021397, AL121892, Z98255, AC004994, AC009225, AL118497, Z82205, AC009288, Z84470, AC004842,

Clone	No.	ID	Range 1	Range 2	Accession Numbers
HCWBX67	857	506730	1-508	15-522	AC003692, AC006397, AP000552, AC006152, AC010849, AL117351, AC004057, AC006984, AC004385, AP000023, AP000506, AC005342, Y10196, AC005871, Z81365, AL008709, AL080239, AC007363, AL031654, AC002403, AC007533, AL050333, AC007159, AL109656, AL050308, AF064866, AC004208, AC004081, AC005393, AL049565, AC006062, AL033397, AP000014, Z98051, AC002430, AC002430, AC007617, AC006213, AF064862, AL021997, AC006227, AF064865, AC002524, AC005962, AC006071, AC009514, AC007384, AC002429, AF055066, AC004988, AB000882, AC000761, AC005768, AC004467, AC004459, U91323, AF164343, AC005516, AC018633, AC006487, AL109758, Z98941, AC006288, AC004830, Z98172, AC000100, AC006195, AC010349, AC002499, AL031012, AL022322, AC002056, AC005863, AL024497, AC004629, AC002381, AC004745, AC006270, Z94055, AL109753, and AC004889.
HCWBX75	858	767491	1-121	15-135	
HCWBZ78	859	706521	1-473	15-487	AL050322.
HCWCA51	860	849923	1-499	15-513	AC002395.
HCWCB37	861	527683	1-399	15-413	AF150189, AF150193, and AF150184.
HCWCB80	862	529234	1-210	15-224	
HCWCB89	863	542340	1-175	15-189	
HCWCC62	864	967306	1-386	15-400	
HCWCC77	865	527077	1-278	15-292	
HCWCC82	866	705347	1-393	15-407	
HCWCE02	867	849968	1-312	15-326	AI266137, AA446645, AA364006, AA689351, AW419126, AA365520, AA642464, AA223999, AA502207, AA526099, AW192199, H62778, AA05848, AA493464, AA525807, AI885896, AA603323, T67090, AA487209, AI272052, AA971196, W45205, AA228368, AA593471, H81270, AA527633, AA584655, AA485482, AA468505, F13749, AA468371, AA715173, AA715075, AA581895, H15241, AA302763, AA084609, AW028376, F25301, AA824484, AA552809, AI245693, AW089952, AI277211, AA630947, AW188742, AA296614, T65951, H91047, AA583728, S42653, AC004408, AC007136, M87914, AC005859, AC009247, AL135744, AL133353, AL022336, AC004686, AL121915, AP000088, AC004106, AC005049, AC005209, Z86090, AF207550, AC005229, AC002045, AC004975, AC004150, AF196972, AC002044, AC007450, AL049760, AC006130, AP000066, AC006130, AC004999, AC007880, AL022316, AC009516, Z85996, AL096776, AF111168, AC000353, U91321, AC004125, AL031659, AC004797, AL031589, AC006430, AL096791, U80017, AC006026, Z82217, AC002350, AF047825, AC005180, AC008033, AC005324, AP000096, Z94277, AF165926, AC004687, AC005006, D87675, AC004832, AP000252, AC002375, Z95152, AL049872, AP001053, AL035420, U91322, AF134726, AC007845, AC005619, Z84469, AC004673, AC003025, AC004491, AC006014, AL009173, AC002476, AC004813, AC000052, AC005412, AL035400, AC005971, AC007054, AL031681, AC006323, Z94801, AC007226, AC004148.

HCWCE21	868	523224	1 - 540	15 - 554	AL031662, AP000240, AP000501, AC005702, AC006050, AL024494, AC003106, Z82201, AL022721, AF139813, AC005730, AC005821, AL020997, AC004685, AC004019, AP000553, AP000065, AP000212, AP000134, AP000115, Z93017, AC002378, AC005086, AL021407, AC000387, AC004526, AC005488, AF064858, AP000104, AC002365, Z91241, AC006111, AC031432, AC005796, AL031311, AL035691, AC006344, AL133485, AC003982, AC004841, AC003110, AL035249, AL049759, AC006271, AF165138, AC003667, AC004682, AC004477, AC005921, AC005516, AC004765, AC005479, AP000009, AC002067, AC004859, AF205588, AL096712, AC003109, AC007358, AP000008, AC005562, AL031289, U91323, AC007040, AC007114, AL024498, AC004815, Z95114, AC006057, AC006057, Z98304, AC007842, AC031728, AC006453, AL121748, AP000509, AL132987, AL031594, AC002347, AC005369, AF109907, AP000704, AC004904, AC004294, AC002546, AC002039, AP000512, AL121923, AC006160, AC004223, AC005846, AL021397, AL035683, AC006120, AL031664, AC006576, AL132777, AC005043, AC002369, AC007193, AC004955, AC002310, AL122021, AL033517, AC004254, L44140, AC012085, AC004072, AC002477, AL049631, AC005071, AL109827, Z82195, AC007687, Z84487, AC005839, AL034451, AP000032, AC007308, AC006571, AC007536, AC007685, AF088219, AC004216, AC005914, AC005291, AC004517, AF190465, AC007860, AC003077, Z85986, AC011456, AC006501, AL021154, AL009181, AC002394, AC005081, AC004796, AC002470, AL078638, AC005678, AC003950, Z82244, AL133448, AC004913, Y14768, AC005632, AL049830, AC005696, and AL034371.
HCWCE35	869	706489	1 - 289	15 - 303	AA131704.
					AW440424, N55515, AI025905, AI285493, AI683426, AL133906, AL133902, AA834670, AI446623, T70299, AC004983, AL035608, AC005800, AC006050, AF165926, AL031282, AF109907, AP000152, AC005154, X74984, AC004922, AF052051, AL049830, AF146367, AC003042, AF124523, AC005291, AJ003147, U82668, AC006124, AC004890, AC002306, AC005288, AP000300, AP000549, AC006946, AC031666, AC005221, AC006197, AC004874, AP000113, and AP000045.
HCWCE63	870	527678	1 - 244	15 - 258	T96277, T96279, and AP000555.
HCWCE69	871	757800	1 - 284	15 - 298	
HCWCE71	872	932549	1 - 235	15 - 249	AI884861, N63755, AA586433, AI018726, AI624038, AI246061, AA341865, II71678, R48980, AW192648, AA317414, H81732, AA679353, AW055557, AA662614, AA054639, AW408396, H86579, AA063115, AA730488, AA371883, AA558404, AI367222, AI054090, AW069769, AA486877, W94450, N30205, AI360504, AA985199, AA077637, W42587, AA018923, AI249853, AA012829, AI284543, R87646, AI254770, AI251944, AI251034, AI251203, AI251284, R33091, AI250552, AI904944, AA303131, AA809011, AA206366, AI926597, R56810, AI459866, AA302660, H52397, AA304790, H53023, AI537800, HG1871, AA774006, R19199, AA192731, H90032, AI251241, AL037006, W68328, H65213, AI223626, AW019964, AW303098, AA744095, H07953, T02817, AW265688, F23307, AA295893, AI903464, AA295899, AI369076, AW341741,

AI679045, AI276360, AI061303, AA808725, AA564256, R89560, H56003, AW190302, F35674, T58480, T94592, AI860535, AA846014, AA114131, AA322542, R14824, AI251576, AI355246, AI049504, AA533660, AA524766, AI306232, AJ434144, AW274191, AI583466, F25984, AA054085, AI445338, AW160038, AA744423, AW342143, AI859428, AA364323, R94968, H10454, AA468494, AI791659, AA429942, AW327555, AA632907, AI903448, AA628456, H47736, H53217, AA507993, AW085839, AI224619, AA862029, H53284, AI805261, AI612810, AI246192, AA115655, H54252, AA278814, AI880889, T48829, AA297961, AI479068, AI565084, H04971, AI699049, AI929298, AA339789, AI804519, AI929825, AI865980, AA730764, AA662989, AA702724, AA700958, AW005974, R72264, AI539024, AA486819, AI114645, AA678616, AA721530, AA669185, AI004740, AA434346, TS4783, N86446, AA731361, AL046818, AW157180, AA721998, AA449979, AA721523, AA363003, AC000063, AC003667, AC006006, AC005593, AL136295, AF042484, AC009225, AL132987, AC006211, AC006398, AL096816, AF093117, AP000295, AC002553, APO00112, U95626, AC004015, Z68284, AL122021, AL078476, AL031446, AC006229, AC005610, AF064861, AC005189, AL049795, AF196972, AC006965, AL035467, AC008119, AC005537, AC007625, AC006511, Z98884, AL031599, AC004069, AL096701, AC006559, AC002120, AL096792, AC004187, AL136504, AC005815, U08988, AL050311, AC006060, AL022717, AL035067, AL009181, AC004855, AC002088, AL034402, AC003106, AL022069, AL023582, AC000094, AL022578, AC005513, AC006324, Z97195, AC006840, AC006077, AC005158, AB020864, AL031584, AL109984, AC007458, AC000085, AC004969, AC005351, AC007869, AC004884, AC002496, AL035687, AL049650, AL034421, AC005053, AC008154, AC002456, AL133246, AL031346, AP000516, AC005799, AC002430, AP000355, AC007384, AC005389, AL031602, AP001137, AL031848, AL035697, AC003111, AL050318, AC005225, AC005261, AL031120, AL109985, AC006213, AC007671, AC009227, AC004805, AC005015, AC002369, AL022319, AC007032, AC006500, Z82206, AC005969, AC002554, AC004812, AL136168, AC002081, AC018633, AL117328, AC004460, AC007065, AL135744, AL096712, AP000855, AC004592, AP000964, AJ011930, AC002556, AL080276, AC000086, AC005546, AL031347, AL049699, AC008072, AC006481, X71402, Z85986, AL117338, AP000565, AC005901, AC005837, AC005089, AC002072, AC004941, AC006296, AC005480, AC004129, AL031845, AI004862, AP000697, AP000261, AF196779, AC005518, AC006263, AC004949, AC008126, AL049176, AL031664, AC004789, AC004049, AC007199, AP000561, AL049780, AC007055, AL034420, AL031671, AI003147, Z82189, AC004017, AC006241, D83253, AP000502, AC002551, AC009275, AL110292, AP000100, AP000035, AL020997, AC006465, AL096843, AL132985, AL034423, Z95114, AL133163, AC003088, AC006417, AC004762, AC005872, AC034411, U85195, AF205588, AC022517, AL136297, AC000025, AC000072, AL022476, AL021937, AC004854, Z85987, AC006141, AC004000, AC005823, AF134726, AC005527, D86993, AE000658, AC007656, AC007390, AC008041, AC006075, AL034343, AC004383, AP000514, AL023807, AL008631,

HCWCE86	873	964648	1 - 389	15 - 403	AC005587, AL031283, AC005228, AC004972, AC004821, AB020863, AC007192, AC000111, AC005231, AL079305, AL133304, AL078471, AP000432, AL021393, Z86090, AC007031, AL008718, AC002312, AC008134, L35532, AC005529, AC004764, AC005006, Z84719, AC004448, and AL034551.
HCWCF04	874	615626	1 - 39	15 - 53	AF070717, AF049895, AC002425, AL078644, AC004386, AC000353, AC004007, AC007192, AC002400, AC006064, AC002299, AC008067, and AC005756.
HCWCF06	875	954580	1 - 204	15 - 218	
HCWCF91	876	527558	1 - 335	15 - 349	
HCWCF94	877	952684	1 - 536	15 - 550	
HCWCG31	878	527090	1 - 609	15 - 623	
HCWCG62	879	575336	1 - 320	15 - 334	T05617, AI523477, N38803, AI754567, AI754105, AI755214, AI298079, AI863279, AW023975, AA614139, AI860535, AA209436, AA363957, AL042373, AI279417, AI080732, AL038977, AI491755, AA582746, AI624234, AI267356, AA741301, AA489860, AI630894, AI078409, AI278211, AI560073, AI249688, AW316599, F29071, AI686563, AW373645, AA831638, AI038104, AA612578, AI356264, AI569100, AW192599, AI080307, AA832016, AA984543, T67090, AI583142, AA507990, AA311432, H40478, AW071109, AL134167, AL045476, AA995827, AW439703, AA702550, AC005399, AF038458, AL031121, AC012085, AC005014, AL031985, AC002994, Z83844, AR036572, U91328, AC003662, AC006449, AL121653, AC005839, AC007386, AC009501, AC004019, AF064857, AC005589, AF139813, U80017, Z82195, AC002395, AC004963, AC005015, AC006064, AC002094, AC005520, AL031005, AL049282, AC005529, AL022238, AL034429, AL024498, AC003025, AL049829, AC004882, AL034418, AL022331, AC006343, AL133382, X60459, AC003103, AC004986, AC004223, X64467, AL022400, AC004228, AC005018, Z75887, Z97056, AC006111, AP000555, AC010077, AC002492, AL133163, AC007207, AC007385, AL109842, AC004144, AC004131, U89337, AC000092, AP000692, AC005932, AL050318, Z82244, Y10196, AC004991, AC003108, AC006032, AC004664, AC007934, AL049779, AL049636, AC004033, AP000011, AP000152, AP000011, AC004382, AC006930, AC005578, AL022328, AL035700, AC007731, AC006084, AC005500, AC005182, AC002477, AF049895, AC004644, AP000501, AC003007, AL031589, AL008715, U55184, AL008710, AL049576, AL022313, AC005102, AL049780, AC005017, AC002316, AC004016, AC006125, AL022476, AL031433, AC005482, AC007191, AP001137, AC005037, AL034402, AL035684, AC006292, AC005740, AC006101, AL121754, AC000134, AF053356, AL021546, AC009399, AC006597, AL049229, AC002422, AC004820, AC007536, AC005666, AC006130, AC005086, AL049872, AP001058, AC006480, AC005516, AC006238, AC007228, D86995, AC009363, AC007057, U95743, AF047825, Z98044, AC000353, AC006323, AC004804, AL049697, AC004805, AC003104, AC004876, AL033397, AC000159, AC005632, AF126403, AC007114, AP000359, AC002073, AL031274, AJ003147, AC006531, U91321, AL031672,

HCWCH01	880	920706	1-279	15-293	Z82900, AL109801, AL031311, AC005527, AC004594, AC004126, AL035685, AC007021, AC004593, AC005952, AP000123, AL050321, AC005231, AL035697, Z49235, AL121603, AC006388, AC009225, AL049538, AC022517, Z97184, AP000141, AC004910, AF001550, AC003012, AC005225, AC007156, Z93017, AF196972, AC004234, AC006530, AC004079, AP000215, AC006312, Z94277, Z68273, AC005777, U95740, AC007276, AC002470, AL031228, AC006011, AC004990, AL109827, AC004674, AC005332, AP000088, AL008635, AC002418, AC005011, AL021977, AP000328, AP000055, AP000170, Z83843, AL031680, AC004765, AL049776, AL022336, AL031286, Z93023, Z84481, and Z92846.
HCWCH22	881	675011	1-132	15-146	
HCWCH45	882	577704	1-292	15-306	
HCWCI01	883	921586	1-437	15-451	
HCWCI38	884	556358	1-544	15-558	
HCWCI86	885	790718	1-147	15-161	AC004002, and L78810.
HCWCJ85	886	529243	1-324	15-338	
HCWCL10	887	888992	1-466	15-480	
HCWCL62	888	715981	1-309	15-323	AP000277, AL022147, AP000037, and AP000105.
HCWCL67	889	751963	1-328	15-342	
HCWCM16	890	667392	1-231	15-245	AC004968, AF001552, and AC004876.
HCWCM65	891	529230	1-437	15-451	
HCWCM96	892	963564	1-225	15-239	
HCWCN25	893	518793	1-297	15-311	AA577748, F17700, AA703972, AA548087, AI446474, H05073, D56402, AI053786, T78484, AI890385, AA837677, AI979005, AA663966, AI254485, AI859834, AA077776, AA492399, AA721615, AA857296, AA663701, AA326410, AL118911, AA503168, AA536015, AI251111, H57826, AA357307, AI859946, N39097, AI538540, AA531554, AA972238, T94328, AA564561, H10143, R32200, R26134, AI633185, M78169, AW419081, AI671035, AW079809, AA515350, AW304531, AI623899, AA487542, R94288, AA297968, T92957, AA564145, AA828762, AI610644, AI291317, AA776552, AI151407, H94870, AI261913, AA148656, AI912514, AA526656, AA614010, AW337454, R91232, AA814510, AA837646, AA827978, AA360987, AA501614, AA235575, AA360996, AA572960, AL031685, U82828, AC008394, AC004854, AL078471, AC002543, AC002082, AC003029, AL035072, AC005971, AC006001, AF196969, AC002312, AC004386, AB023051, AP000512, AC004821, AC004996, AC003041, AC004231, AP000343, AC005740, AL049761, AL020997, AP000513, AC004930, AC004158, AC005519, AL121652, AL133246, AB001523, AC002351, AC020663, AP000330, AL008582, AC005914, U07000, AC002310, AL034420, Z99714, AL109653, AC007262, AP000215, AC004675, AC006257, AC004990, AC005696, AC006023, AC007055, AL033518, AC004883, Z95116.

Clone	No.	Value	ORF (nt)	ORF (aa)	Accession Numbers
HCWCN40	894	835584	1 - 425	15 - 439	AC016027, AF088219, AL034417, AL008635, AC007565, AC005206, AC005037, AC005081, AC016830, Z99716, AC006126, AF015720, AL031672, AP000244, AL121655, L78833, AL096701, AC005069, AC008372, AC004796, AL035587, AC005013, AC007676, AC005667, AC004638, AL049776, AL008725, AC004087, AC005951, AB023052, AL035461, AF064861, AC005832, AC005332, AC007227, AJ229041, U62293, AC008012, AL023879, AC005015, AC005046, AC005529, AC006285, AL121658, AF001550, U85195, AC005736, AC004955, AF037338, AL031229, AL132857, AC007384, AL122020, AC007899, AC002980, AC005722, AC005255, AL049552, AF165926, AC004477, AC004820, AE000658, AF111169, AL022320, AC005251, AL050318, AP000210, AP000132, AC006160, AC006079, AC016025, AC003043, AC005972, AC002531, AC005057, AF111168, AL049705, Z97196, AL021939, AC005544, AL022322, AL049869, AC002301, AC009247, AL109802, AL008718, AP000555, AC004226, AC005023, AC007510, AC005412, Z68870, Z83840, AL031228, AL035415, AP000248, Z93017, AC000052, AL031005, AC004491, U63834, Z99128, AC005702, AL021578, AL135744, AC007308, AC004921, AC008033, AF053356, AC004047, AL132712, AC009516, AC007199, AL023803, AL110502, AL117328, AP006690, and AC005065.
HCWCN45	895	723418	1 - 505	15 - 519	AL032822.
HCWCN61	896	924894	1 - 294	15 - 308	AC004098.
HCWCN92	897	527088	1 - 419	15 - 433	
HCWCO02	898	920876	1 - 303	15 - 317	AA716191, AL031412, and Z65992.
HCWCO21	899	523225	1 - 145	15 - 159	AA554430, AAS28234, F16356, AC007263, Z86064, AL122023, AL008719, and AC002430.
HCWCO35	900	706490	1 - 504	15 - 518	F30251, AA371410, AA831919, AA385775, AI929796, AW089625, AI345334, R70883, AI283938, AW008184, AAS35216, R92658, F24272, R70884, AA610255, AI885465, AI884383, AI908508, AI908525, AI278801, AC004491, AC004448, AC005291, AL031121, AC007880, AC007193, AC003041, AC008372, AL049776, AF196969, AC005091, AC016830, AC005102, AC006449, AF042484, AC006013, AC005921, AL009181, AC005948, AC005180, AC004242, AC006023, AC007488, AC004659, AC002039, AC004891, AC005399, Z75744, AC004019, AL031733, AL031228, U95742, AC007216, AL035684, AC004087, AC005971, AL110502, AL049646, AL031289, AP000555, AC002425, AL096712, AC007226, AP000689, AL031311, AC005535, AC003663, AC005225, AC008041, AC005820, AC006530, AC002400, AL031588, AC005874, AF134471, Z95115, AL117355, AP000512, AC007056, AC004475, AC004913, L78810, Z83844, AC007690, AC006160, AC006277, AF109907, AC005803, AC005015, AC004686, AC004865, AB020865, AL121653, AC005668, AC005932, AC004921, AC004843, AC012627, AL078639, AC005839, AC005954, AC006441, U96629, AL022165, AC007386, AC004033, AL035413, AC006001, AC004142, AP000302, AC004859, AC009533, AC005736, AL132994, AC006285, AC005726, AC002094, AC007055, AD000092, AC005520, AP000500, AF111168, AC005081, U95740, AL121923, AL121825, U07000, AC002544, AC002470,

HCWCO54	901	558274	1 - 368	15 - 382	AL034551, AC006581, AC004687, Z82206, AC007406, AC007766, AC002126, AP000501, AL133244, AC006071, AL133243, AC005095, Z75888, AP000114, AP000046, AC000353, U52111, AL049869, AP000350, AJ243213, AF019413, AC009946, AC007656, AC005578, AC002347, Z96074, AL049780, AJ003147, AF064861, AC016027, AL109627, AL078638, AL022316, AL133448, AC005229, AL022163, AC005325, AC000393, AF001548, Z75887, AF024533, AC004531, AC006512, AJ236701, AC005531, AC005274, AL031680, Z82180, AC003080, Z93241, AC006511, AC005480, AC004000, AC004583, and AC005790. N53621, AW302766, AA843874, AC007677, AP001136, AC009308, AL034377, AP000473, AC003669, Z84469, AC006948, AC007077, AL023799, AP000099, Z97198, AP000036, AL035686, Z68326, AC005341, AC007126, AP000262, AC002167, Z83313, AC009399, AC004806, AL022166, AC002066, AJ229041, AJ133269, AF020801, AF107885, AC007556, AC004597, AC005837, AC002527, and AL080239.
HCWCO63	902	557917	1 - 310	15 - 324	
HCWCO72	903	527546	1 - 296	15 - 310	AC005907.
HCWCO77	904	772515	1 - 99	15 - 113	
HCWCP68	905	573148	1 - 203	15 - 217	AA828573.
HCWCQ15	906	527688	1 - 312	15 - 326	AL008639.
HCWCQ48	907	531423	1 - 106	15 - 120	
HCWCQ95	908	723610	1 - 99	15 - 113	
HCWCR31	909	693632	1 - 656	15 - 670	N66690, AI200947, AI127410, AI932346, AW008872, C06101, and AA053116.
HCWCR64	910	526482	1 - 309	15 - 323	AW150387, AA533054, H71678, AA568314, AW419389, H72278, AI187148, F31811, AL040374, AI431513, AA605266, AA610433, AA904211, AA018923, AA513921, AW167154, AA468505, AA468371, AI880329, AA516320, AA809179, AI917132, AA056248, H67064, AA579278, AA493628, AA492524, AW002831, H72688, AI640411, AA605201, T74524, AA228368, AA721561, AW275699, AA742775, AA282951, AA862075, AI583291, AA365520, R74433, AA577141, AI635440, AA689351, N73060, H84412, H79453, AA515138, AI569401, AI366993, AI915293, AA526193, AA502098, AC004525, AC002303, AC007227, AL024507, AL021368, AC005088, AF196969, AF030453, AL034371, AL031905, U62317, U95743, AC004985, AC002565, M87889, U95741, AF053356, AC005971, AC004883, AL031657, AL022336, AC006079, U07000, AL049539, AL049780, AC008072, AC005841, AP000052, AP000120, AP000702, AFI11168, AC002375, U02047, U91323, AC004815, AC004862, AC005828, AC004887, AC006241, AL031282, AC002352, AC006486, AC000004, AL096701, AC009516, AC004983, AL049569, AC006088, AL031056, L78810, Z84487, AC005244, AP000320, AC009464, AL049758, AL020997, AL049692, AC004448, AP000884, AC006285, AC003663, AC005899, AC004466, AC003085, AC005041, AF002223, AL031985, AL121769, AP000141, AL021918, Z98941, AC006965, AC005632, AL109801, AP000167, D87009, AC006449, Z95113, AP000553, AC004685, AC006117, Z95152, AL033527, AF047825, AF134726, AC002551.

HCWCS12	911	585202	1 - 285	15 - 299	AL049872, AC002126, AC006480, AC004084, AL031291, AL121748, AC004933, AC004128, AL031295, D87675, AC009294, AC005332, AC008101, AC005104, AL139054, AC010206, AL008715, AC006239, AC006530, AL022327, AL035551, AC005389, AL096791, AL049712, AC005081, AP000555, U91326, AC007182, AL034429, Z98257, AL132641, AC007899, AL022316, AC004583, AC003103, AL133353, AC002554, AC004699, AL050321, AC005859, AC004645, AC003043, AC002468, AP000248, AC007536, AP000689, AL021808, AC002316, Z68273, AC005914, AP000494, AC005755, AL133448, AL022326, Z82188, AC005102, AC002544, AC005086, AL031587, AC005669, AC005037, AC007395, AC005015, AC004797, Z98949, AL049589, AC005778, AC006026, AC019014, AC004878, AC004905, AC003108, AL035086, AC005821, AC006547, AL031311, AL135744, AC005722, AL031575, AL049830, AP000514, AC005616, AL008726, AP000501, AP000243, AC008928, AP000512, AF196971, AL008730, AC006365, AC006312, AP000116, AL099178, AC002312, AC006111, AL049874, AC004125, AL112992, AC007664, AC005921, AL135879, AL121790, AC004526, AF205588, AC002302, Z98752, AC005412, AC004584, Z49866, AL022163, AL035587, AP000569, AF107258, Z99755, Z95327, AC005863, AC006344, AC005369, AL008583, AL133485, AC007371, Z73358, AC000118, AC006538, AP000100, AC006128, AC004902, AL009172, AF165926, AC006006, AC007263, AP000688, AL149760, AC006139, AL031428, AL050341, U91321, AC003042, AB016897, AC007314, AL022320, AC007314, AC004148, AC002985, AB023048, Z84480, AF196779, AL135960, AJ131016, and AC007376.
HCWCS51	912	921636	1 - 217	15 - 231	
HCWCT07	913	954070	1 - 258	15 - 272	AC002306.
HCWCT23	914	676336	1 - 250	15 - 264	
HCWCT48	915	741925	1 - 447	15 - 461	AC005599.
HCWCT85	916	527543	1 - 321	15 - 335	
HCWCU01	917	921618	1 - 310	15 - 324	AA729117, AI791301, AI791458, AI732502, AA171892, and AA526416.
HCWCU17	918	577688	1 - 329	15 - 343	
HCWCU32	919	725584	1 - 427	15 - 441	AI014353, AA592982, and R17976.
HCWCU57	920	764602	1 - 451	15 - 465	AW418610, and AL109667.
HCWCU58	921	527695	1 - 305	15 - 319	
HCWCU63	922	527541	1 - 163	15 - 177	
HCWCU94	923	713416	1 - 292	15 - 306	
HCWCV01	924	921569	1 - 293	15 - 307	AI433503, AA715955, AW150900, W04964, AL031662, AL109623, AP000009, Z98742, and AF196969.
HCWCV09	925	861950	1 - 420	15 - 434	
HCWCV16	926	861839	1 - 552	15 - 566	

HCWCV58	927	966512	1 - 314	15 - 328	W21218, AI445373, AI049701, N42508, AI870444, AI564301, AA151904, AS64301, AA147801, AL134898, AL120698, AI056259, W63553, AA515172, N73169, AI246061, AA278496, AW019964, N77384, AI537020, AW238016, AI557090, AI223626, AI973173, F08866, AW021116, R48980, AI860535, AI054090, AI251024, AA728861, AA565911, AA715351, AI284543, AI254770, AA448050, AI927261, AI251944, AI251034, AI251203, AI251284, AA559166, AI250552, AL096791, AC010205, AP000201, AP000097, Z99716, AP000240, Z98304, AC003087, AP000556, AL031685, AC006211, Z98742, AC005034, AC004223, AC002476, Z83844, AC007380, AP000557, AL034555, AC005839, AL132716, AL034449, AP000553, AC003007, AC004991, AC012083, AC002381, AC002425, AL022324, Z98946, AC005015, Y10196, AP000355, AC005821, Z93023, AC002470, AC002091, AL139054, AF130342, U80017, AL035420, AC004485, AL121653, AC009509, AC005740, AC005722, AP000248, AB023049, AR036572, U91328, AC004126, AL033397, AC007707, AL049694, AC006130, AL035659, AL109865, AF196969, AC005829, AL109657, AC002368, Z84466, AC009247, AC002347, AC007055, AC005011, AF001549, AC004827, Z98048, AP000352, AL031680, AC005235, AL049794, AC005081, AC003029, AC003101, AC004079, L44140, AC005261, AL121652, AC004659, AC006992, AL034419, AF111168, AC005486, AP001053, AC012384, AC006285, AC005089, AC005534, AC005071, AC004797, AL022165, AP000343, AC006312, AC005519, U89337, AL078613, AC003663, AP000501, AL021878, AF200465, Y07848, AC002457, AC003982, AC005696, U95739, AL022334, AC006511, AC006333, Z98051, U96629, AP000039, AP000107, AL079340, AL031281, AC009399, AC007057, AL031228, AC002563, AL035587, AC005919, AC005274, AC005911, AL035071, U91323, AC005072, AL031286, AL121603, AL034582, Z84489, AC008498, AC004491, AP000345, AC007193, AC004448, AC005952, AP000555, AC007225, AL133163, AC005330, AL050404, AP000689, AC005632, AL096701, AC005225, Z83826, AL109801, AL035682, AP000344, AL008718, AL022326, AC004139, AL008627, AL031985, AC005799, U78027, AC004834, Z98941, AC004821, AC005014, Z98884, AF196779, AP000300, AC005095, AC006512, AC007934, AL117337, AC007200, AL035422, AC005243, AL031283, U82828, AC005332, AC005971, AL035089, U52112, AL022336, AC005702, AC004891, L48038, AL132826, AP000113, AP000045, AC007011, Z93017, AC004816, AL023319, AC004647, AC006529, AC004859, AC005684, AC007551, AF205588, AL049692, AC004475, Z98044, AL034553, AC007371, and AC003689.
HCWCV75	928	527080	1 - 226	15 - 240	
HCWCV85	929	966987	1 - 318	15 - 332	AC004801.
HCWCV93	930	792550	1 - 76	15 - 90	
HCWCX18	931	574933	1 - 364	15 - 378	
HCWCY16	932	507191	1 - 215	15 - 229	
HCWCZ33	933	523265	1 - 223	15 - 237	
HCWDB74	934	521894	1 - 265	15 - 279	AA745628, N69399, R32162, T51436, AI246386, H80215, AI139971, N27874, AA565911.

AA523719, AW390278, AI566236, AA515160, AA290351, AA425924, AA984585, AI583745, AA649174, AW377921, AI570019, AI281622, AI679759, R70884, AA833828, AW377907, AW377863, AW377912, AA078384, AA468494, H60131, AW176639, H63953, AA468956, AW390555, AW377894, AL038977, AW377926, AW377843, AW377862, AA484191, AW390250, AA702637, AA584788, AI133083, AI246061, AA516018, AA678616, AW151870, AA548221, AI524240, AA468975, R70883, AW384076, AW237903, AA514450, AA218835, AI734155, AI282821, AI983447, AA722331, F33820, AI749306, AI538491, AW270255, AW337483, AA309457, AA334993, T31290, AA357878, T53133, AW179040, AA572813, T40210, AI369925, AA579281, AI240755, AA625565, AA419225, AI290777, AI373810, AA366676, AI628482, AW379218, AL042667, AL042670, AA564925, AL050321, AL023807, AL033524, AC005081, AC005015, AF121781, AL035106, AL080243, AL049611, AC005225, AL031286, AF001549, U61981, AC005746, Z69705, AC005940, AC002112, AP000131, AP000209, AC004754, AL049776, AL034421, AL022069, AC005291, AI011930, AL008629, AL022400, AL031428, Z82179, AL022336, AP000264, AP000101, AP000035, AL035690, U50871, AL035445, AC005368, AC003963, AC004890, AC000003, AC002073, AC005901, AL049712, AL022721, AC007283, AP000094, AC003954, U66061, AC005516, AC007298, AC005235, AC007656, AC006305, AC005529, AC005383, AC006676, AC010170, AC005972, AC005821, AC002390, AF067574, AC005574, AL031848, AP000501, AF184110, AP000502, AF134726, AC006059, AL109865, Z84474, AL031848, AP000501, AF184110, AP000502, AF134726, AC006059, AL109865, AF109907, AC006271, AC005899, Z98749, AC002456, AC005037, AC004137, AC004966, AP000140, AP000089, AL022326, AL035455, AL049588, AC007226, AC005874, AF134471, AC002542, AL139054, AC005377, AL033392, AL022725, AC005011, AL121769, AP000543, AP000239, AL031588, AC009275, AC004230, AL034548, AC009308, AL031257, U96629, AC002472, D28126, AP000282, AC007536, AC004216, AC006008, AC006241, AC005091, AP000313, AF047825, AF053356, AL096774, AC004216, AC006008, AC006241, AC005091, AP000313, AC004209, AL022311, AL021937, AP000513, AL034350, AC003070, AC004020, AC005694, AP000194, AL035413, AB020863, AC006417, AP000088, AL049834, AC005164, AL078639, Z95118, U95742, AC012085, AP000108, AP000040, AC006088, AC004583, AC004500, AC004812, AP000050, AP000248, AL096791, U91326, AC007263, AF030876, AL121825, Z84466, AC002395, AL049781, AC000041, AF045555, AL020997, AC005914, AL031668, AC007666, AC000035, AC004143, AL022237, AC003030, AC004558, AC004217, AC002551, Z98048, AC000025, AL034551, AL022324, AC019014, AP000350, AC005261, AC005010, U85195, AF111168, AE000658, AC006658, AP000117, Z98745, AC007934, AC006254, Z92542, AC005230, AL035071, Z99943, AL035460, AL133245, AL121653, AC007425, Z82194, AC006430, AC007347, AL022238, AC006001, AC007057, AL049872, AC006277, AL034423, Z95400, AC008273, Z95152, AC004805, AF172277, AC005678, AC005184, AC005722, AC002289, AC002369, AP000503, AC005846, AC005288, AC002307, AC010202,

HCWDB94	935	531417	1-299	15-313	and AC008041.
HCWDD15	936	660571	1-264	15-278	AI697096.
HCWDD60	937	575555	1-147	15-161	
HCWDG46	938	715509	1-147	15-161	
HCWDG49	939	861951	1-449	15-463	
HCWDH65	940	574250	1-533	15-547	
HCWDH85	941	574262	1-168	15-182	
HCWDH92	942	790618	1-212	15-226	
HCWDI37	943	849867	1-414	15-428	
HCWDI43	944	527685	1-309	15-323	
HCWDI64	945	924632	1-238	15-252	
HCWDI72	946	573034	1-163	15-177	
HCWDI79	947	526765	1-394	15-408	
HCWDI82	948	671636	1-221	15-235	
HCWDI89	949	953750	1-756	15-770	AA703394, AA128633, AA001607, T91402, AA001264, T84635, AA877628, and T25726.
HCWDI92	950	733422	1-341	15-355	
HCWDJ21	951	524780	1-347	15-361	AP000456, and AL078474.
HCWDJ23	952	527555	1-346	15-360	
HCWDJ31	953	531418	1-262	15-276	AA843450, AA077952, F19258, AA626678, AA469451, AA340003, AA743956, AA745410, N27351, AA327323, AW438916, F29989, AW406755, AI872227, R91994, AW021583, AI358229, AL041368, AW340844, AW440836, AI365988, AI792108, AW339687, AI635272, AA618158, AI439269, F31204, AI824562, AA077817, AI246796, AI205126, AA515128, AW105538, AI003734, AL133723, AI803348, AI250019, AW236342, AI144055, AW088202, AA932099, AA594145, AI216799, AA377730, AA077223, F37286, AA486680, AA016075, AW304584, AW440976, AA947801, AA515938, AA228329, AL040913, AW269639, AI820539, AI286264, AA515435, AA551509, AI003743, AI291124, W60516, F35659, AI291268, AI963263, AW074398, AI537030, AW419262, AL037554, AA610786, AI267847, AA362700, AA084070, AI653809, AW104748, AI608626, AI003172, AA515224, AA713815, AL138265, AW086257, C16459, AI962050, AA745582, AA077935, AA581342, AA338234, AL079812, AA633892, AI050007, AI917271, AA363989, AI471481, AA744074, AA744088, AA745355, F25203, AL120483, AA515051, AI357551, AI929531, AI049722, AI433187, AW162049, AW303876, AJ284640, AI816537, AI908628, AA557879, AI873916, AW407578, AA501344, AI469878, T12272, AA659774, AA252729, AA338431, M78177, AI802526, AI952786, AI244758, AW274349, AI890923, AA715606, AW338754, AA341398, AI866964, AI240891, AW303196, AW301350, AW188484, AW029038, F36273, AI306524, AJ287284, AI904894, AW166815,

AI474713, AA984191, AW338500, AW265253, AA179136, AA348248, AA557325, AA192740,
AA669961, AA178953, AI082510, AW193432, AI688846, AI291823, AA252763, AI312790,
AI039809, AI336054, AI355587, AL138455, AA025083, AI13996X, AA229785, AA598824,
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AA503258, AW327960, AI926846, AA679872, AA856981, AA501614, AA501600, R68874,
H16048, AA664535, H86388, AA024517, AI890540, AW419118, AI000800, AI610159,
AA327782, AI610920, AW242020, AA434484, AW102955, AI951889, AW419161, AL110444,
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Y10196, AC007239, AC005274, AL121603, U91326, AC006057, AC003013, AP000114,
AP000046, AL049557, AL031681, AL031258, AC007695, AC003959, AL049635, AC006026,
AC007226, AL078603, AC000026, AF129756, AC006040, AC003084, Z86090, AF027390,
AC004167, AL022329, AC006317, AP000359, AF165175, Z68870, AC009464, AL049830,
U02048, AC005574, AP000456, Z82190, AC003030, AC006137, AL031983, AC004614,
AL121825, L77570, AC005003, AC002451, AC005681, AL022721, AC007319, AC006374,
AC004506, AC007021, AL049814, AC003007, AC005041, Z83819, Z83849, AC005738,
AC004186, AC005781, AC004854, AL008582, AF031078, AL031297, AL031286, AC004132,
AF030876, AC007899, AC005295, AC004972, AL133321, AL035089, AC004491, AC000134,
U66059, AL035683, AC002067, AF124730, AL109628, AC005081, AC007919, AL049697,
AL109758, AL121653, AC004228, U47924, Z97181, AB023048, U73633, AC004027, AL035530,
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AL008723, AL033403, AC007955, AL049832, AL022238, AL031597, AC005821, AP000517,
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AC005678, S48196, AL034408, X53795, AC006353, AL096791, AC002543, Z83001, AC005264,

HCWDJ45	954	523227	1-440	15-454	X55448, AC006388, Z85987, AL021940, AC004029, and AC005011.
HCWDJ89	955	697736	1-410	15-424	AC003678, and AC003689.
HCWDLJ9	956	669721	1-356	15-370	AA279751.
HCWDL45	957	889416	1-397	15-411	Z98747.
HCWDL68	958	752320	1-163	15-177	AA315353.
HCWDM02	959	920563	1-413	15-427	
HCWDM06	960	935898	1-175	15-189	
HCWDM07	961	953742	1-468	15-482	
HCWDM14	962	849962	1-370	15-384	AW275378, AA551080, AA971039, D45576, Z60609, and Z60608.
HCWDM23	963	676215	1-449	15-463	
HCWDM60	964	754785	1-324	15-338	
HCWDM79	965	578967	1-340	15-354	
HCWDN15	966	557862	1-193	15-207	AF049574.
HCWDN60	967	861882	1-273	15-287	AW104830, and Z99714.
HCWDO11	968	967364	1-339	15-353	
HCWDO56	969	961273	1-516	15-530	
HCWDO65	970	920523	1-424	15-438	
HCWDP85	971	747141	1-282	15-296	
HCWDQ35	972	573577	1-311	15-325	
HCWDR01	973	839104	1-465	15-479	
HCWTDR42	974	529354	1-285	15-299	AC022517.
HCWDR63	975	849899	1-531	15-545	AC006146.
HCWDR86	976	527690	1-513	15-527	H47333, AA465102, AA614574, AC006343, AL049759, AC004876, AC006515, AC007057, AC005370, AL096755, AC004084, AC005037, and AC005488.
HCWDR89	977	787025	1-283	15-297	
HCWDS10	978	880973	1-410	15-424	AA158919.
HCWDS19	979	418009	1-203	15-217	
HCWDS26	980	684696	1-370	15-384	AI859744, AA525331, AW249151, AI720943, AA715075, AI567391, AA715173, AA482928, AA209208, AA774098, AW372037, AL049569, AC004962, U82828, Z97054, Z84466, AC004087, AC007684, AC006312, AL022323, AC005971, AL034420, AL021154, AC003108, AC007298, AC002477, AC005527, AC003003, AL031663, AC007160, AF001549, AF109907, AL049843, AC005280, AC004520, Z97353, AC005399, AP000213, AC004222, AC002549, AC007685, AP000135, AL117258, Z98949, AC005914, Z95115, AC005529, AC004554, AP000031, AC006116, AC002302, AC006077, AC005324, AL133245, AC006006, AC005618, U96409, Z82206, AC006210, AC006195, AC004884, AC005235, AC007686, AL034429, AC002349,

					Accession Numbers
HCWDS40	981	523301	1 - 427	15 - 441	AC003035, AC005661, AC005921, AL021918, AC005531, AL035455, AP000697, AC007016, AL049589, AC005562, AC006033, AL021396, AL031666, Z85996, AC007308, AL050341, U91321, AC003042, AC005694, AL021396, AC005901, AC007242, AF067844, AL022315, AF111168, AC002544, AC005519, AC005480, AB020878, AL121852, AC007386, AC004796, AC004811, AC005722, AP000354, AC009263, AF001548, AL136504, AC002040, AC007263, AC002364, AL034395, AC004655, AC005778, AC006012, AC005548, AL035405, AB023048, AC009044, AC002365, AC002123, AC004167, AC005822, AC005225, AC002426, AC007226, AC004938, AC004912, AC007182, AC004638, U91318, AC007688, U91318, AC004966, AL132987, AL109984, AC006480, AC005015, AC006291, AL022721, Z93930, AC010206, AC004605, AL035683, AC003542, AC005069, AC002044, AC006057, AC004106, AL199963, AC003037, AC005191, AC007537, AC002369, AC002400, Y18000, AC005105, AL122023, Z77249, AC002558, Z84484, AC006474, AP000170, AP000055, AP000123, AC007388, AC007676, Z82190, AC002431, AL031577, AC005102, AF031076, AC005409, AC007225, AC005070, AL033527, AC005972, AC002470, AC004828, AL035587, AL023553, AL033376, AC006115, AC004595, AC006544, AC007376, AP000313, AL133371, AC005940, AC004883, AP000194, AP000109, AP000117, AC000134, AL008582, AP000088, AL035106, AC005839, AL022316, AC008008, AC005332, AC004996, AP000044, AP000112, AC005037, AC005844, Z99496, AP000050, AL049759, AC007510, AL117355, AL049765, AL031055, AI003147, AC002350, AF031078, AP000500, AC003684, AC007731, AF030876, AL030876, AC006571, AL109628, AC005500, Z98050, AC005902, AL031311, Z95331, AL024507, AC007546, AP000493, AF020503, AC008170, AC002492, AC008125, AC002563, Z98036, AC006111, AL035398, U95743, AL080243, AC008064, Z83819, AP000694, AC004893, AC003030, and AC004560.
HCWDS41	982	669754	1 - 352	15 - 366	AA093224, N89520, and AF045432.
HCWDS48	983	861849	1 - 425	15 - 439	AJ937612, AA729747, AW081591, T57592, and AC005261.
HCWDS52	984	771881	1 - 343	15 - 357	AI049996, AI538540, R94288, AA365586, AI952900, AC004253, AC005529, AC004686, AC002351, AC005722, AC009178, AL049709, AJ003147, L44140, AC005231, AC005071, AL135744, AC007676, AC004895, Z99716, AC008372, AC002126, AC000120, AC006241, AC005227, U48696, AC005841, AC006486, AC002316, AC004024, AL121852, AC006023, AC005703, Z68324, AL031767, AL031848, AC005781, AC006538, AC006084, AC006285, AL080243, AC004820, AL050307, AC005413, AL133448, Z93023, AP000552, AL022721, AF196779, AC009464, AL050307, AC005348, AC004623, AL109799, AC004067, AC004887, AL034420, AL117694, AP000688, AC004890, AC011311, AP000513, AC007225, AC002477, AC007376, AL031680, AC016025, AF196969, AL133249, AC004526, AC002073, AC004263, AL021578, Z85987, AC002365, and AC007686.
HCWDS55	985	861943	1 - 441	15 - 455	
HCWDS59	986	934914	1 - 417	15 - 431	N83993, N83168, AC004924, and AF045432.

HCWDS61	987	1 - 394	741992	15 - 408	
HCWDS83	988	1 - 480	612257	15 - 494	AA406404, AW405796, AA233053, AI741861, H67245, AA292217, AI301933, R69395, H43955, AA625270, AA371992, AI033494, N42102, AW025130, AA010129, AI870802, R48046, AI799541, H26714, AI304348, AI017809, AI310484, AA056473, AI220164, AA234535, AI208430, AI470071, AI560756, H81562, H26715, AI131097, AA232686, and AC004258.
HCWDS91	989	1 - 431	557931	15 - 445	N88601, AA247964, N88782, AA095359, H58760, N83168, N89520, N84855, N83991, AA247827, N83992, AA096046, N84048, S78798, AF103726, U48696, AF045432, AF039698, AF102850, and AR066487.
HCWDS94	990	1 - 417	959650	15 - 431	AC005940.
HCWDT12	991	1 - 368	573487	15 - 382	
HCWDT84	992	1 - 320	542238	15 - 334	
HCWDV17	993	1 - 684	974478	15 - 698	N88601, N84855, N89520, N83992, AA095359, AA247964, N84048, N83991, AA096046, N83168, N88782, H58760, AA093224, N84718, N83993, AA095641, AA096066, N86694, N84712, AA471338, N55698, N88518, N84830, N84829, AA215908, AF045432, AF103726, S78798, AR066487, AF039698, AF102850, U48696, AF032922, AJ243486, and U39066.
HCWDV82	994	1 - 124	529210	15 - 138	AL132712.
HCWDW05	995	1 - 332	852997	15 - 346	N57782, AW157128, AI038029, AA129000, AI061313, AA349923, AI520984, AI174489, AI828721, AI285651, R79396, AW192002, AW337817, AA533660, M77964, AW021674, AA557945, AA364147, AA135761, AA018258, AW021847, AI572680, AW069110, AI370470, N80469, AI308529, N55076, AA610644, AA205931, AA579417, H24331, F17312, AA526659, AI345256, AI708565, AI307563, N99564, H52795, AI003391, AA828840, AA730530, H59856, AA526658, AI003068, AW020682, AI684999, AI760850, AA218684, AA084320, AI567676, AA676462, AA084148, AW028376, H53373, AI124558, AW341878, AA834891, AA598497, R87909, AA053463, R86876, AI570067, T59937, AA468923, R88475, AA083850, AW069769, AA372646, AA632869, AA293809, H81012, AA411337, AI884404, F04021, AA613765, AI926876, AA015948, AA658443, AA748071, F24745, AW243864, H57065, AI044566, N25281, N55296, AA227713, AA369465, AA640305, H05066, AC004983, AC005234, AC003102, AL079342, AF111168, AD000671, K03021, AL031291, AL022318, AP000691, AC005031, AC005046, L47222, AC005331, AC004999, Z98200, AL133448, AL049540, AC006088, AC005839, I34294, AC005412, AI121655, AC005332, Z97630, Z93017, AL121825, AC007537, AC006953, AC005180, AL080243, AL035071, Z84488, AC005837, AC002369, AL035587, AC005089, AC007055, U85195, AP000692, L47229, AC006946, AC004491, AC005081, AC006116, AE000658, AC005696, AC005329, Z94161, AC002310, AC005102, AC004099, AC007051, AC005755, AC005011, AC006277, AC007919, AP000689, AC005355, AC007546, AC005666, AC005768, AC002312, AL034548, AL050321, L47227, AL135744, AC005682, AC007676, AC012627, AC005300, AB001523, AC000379, AC000039, AC006538, AC006251,

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HCWDW08	996	861936	1 - 372	15 - 386		
HCWDW13	997	523236	1 - 344	15 - 358		
HCWDW17	998	849938	1 - 294	15 - 308		AC011625.
HCWDW29	999	849939	1 - 223	15 - 237		H05821, AI821975, AI022708, R98591, AC003662, AC004966, Z99128, AC005510, AC004859, AL079342, AC005067, AL031577, AC007425, U62317, AC004686, AL049631, AP001040, AC006014, AB023051, AP000512, Z74739, AC003109, AC004834, AL022228, AC009509, AC005488, AC000026, AC002059, AC005874, AF134471, AC005844, AC005737, AC010205, AC005476, AC002045, AC000039, AC004750, U95740, Z83845, AC002551, AC005015, and AP000496.
HCWDW33	1000	573554	1 - 333	15 - 347		
HCWDW42	1001	462405	1 - 533	15 - 547		AA828984, AA365347, N43757, AA450199, AI921649, AI376100, AW074059, AI356904, AI922654, AI564284, C18357, C18360, AA658235, N53150, AA100489, T28550, AI956124, AI453383, AA593060, AA428414, AA192337, F26152, AI570138, AA829106, AA776936, AA828704, AA776921, T16592, AA584749, M86058, AA228329, AA653964, AA328591, AA303261, AA353595, AA723017, F24284, N59782, AA320748, AI371429, W07032, AA703692, AA397572, AI372413, AI758582, AI364809, AA176924, AA927637, AI340453, AA558656, AI561335, AA372875, AI061334, AI053672, AI334443, AI334443, AA919037, AA196020, AI349874.

HCWDW43	1002	714423	1 - 345	15 - 359	C16624, AW117750, AI688846, AI921188, AW303876, AI963720, AI963409, AI344844, AC007848, AC004712, AL121603, AC006277, M62424, AR025392, AP000352, U96409, AL033381, AC004066, AL109799, Z84718, AC005338, AL136295, X03272, AP000496, AC004862, U63721, AP000212, AF107885, AC005866, U66059, L78833, AC004941, AP000350, AF131217, AC003983, AP000351, AL121934, AC006333, Z99774, AP000692, AC004592, Z92540, AC008115, L49046, AC005887, AC004992, AC003966, AC005618, AL022329, AC007536, X78901, AC006538, AL021918, AC006241, U47024, AC004802, AC006120, AL096862, Z84474, AL109984, AC005856, U95740, AC006332, AC007263, AL022323, AP000356, AL031733, AC004638, AC003112, AL049613, AP000512, AL022318, AL079340, AL049757, AC004933, AC005696, AP000034, AC004741, AC007435, AC005690, AL020993, AL009031, AC002326, AC005940, AC006007, AL133382, AL035681, AL121591, AC007285, AL008629, AL031255, AF023268, AC006146, AL035460, AC006462, AL049776, X53548, AC005625, AP000252, AC006077, AL049610, AC004542, AP000031, AL139054, AP001053, AC006285, AC007680, AL035071, AL133485, AC009516, AL109657, Z99496, AC008134, AC003035, U07977, AL121915, AC004804, AP000553, AC002508, AC016026, AL049712, AL021155, AC004010, AP000354, AC003050, AC005231, AC006511, AP000552, AP000230, AP000144, AC004895, AC020663, AC000353, AC007707, AC008173, Z86062, AP000555, AC006211, AL049766, AC004948, AC005911, AC003977, AL049759, AC004168, AC006449, AL132087, AL031276, AC005998, AC000003, AF023460, AC002425, AC004468, AC004383, AC002544, AL035361, AC005998, AC000003, AF023460, AC004659, AF015153, AC004087, AL021877, AL022284, AC004650, AC005703, AF108083, AC002364, AC006001, AC006157, AC005486, AF165926, and AL133245. AW419201, AW274349, AI625244, AI613459, AL042420, AW302013, AI284640, AI312309, AW166815, AL119691, AA713815, AI471481, AA682912, AA581903, AW162049, AI929531, AL046409, AI281881, AA493464, AW073470, AW167799, AA531372, AA634227, AI859742, AW020340, F36273, AW303196, AW103981, AF177861, AI339850, AA425283, AA601492, AA521323, AA502103, AA630476, AW085751, AW301350, AA229005, AW103758, AI310670, AI567674, AW265385, F30933, AA244357, AW304584, AW341992, AI754955, AA219129, AW072963, AL038785, AF702049, AA521399, AI368745, AA593247, AA489390, AI935827, AI061143, AL036334, N53150, AI801591, AA631915, AA525824, AI889781, AI611990, AW162314, AI367975, AA469451, AA584201, AL042753, AA806796, AI174703, AA837677, AW265468, AA595661, AL121039, AW162332, AC005808, AC007051, AC007919, AF077058, AF015151, AL121934, AC005907, AL023575, AC007066, AC005754, AC005049, AC006511, X75335, AL139054, AL034420, AL009181, AC005330, AL049636, AL008582, AC007216, AL031680, AC005225, AL035659, AC002310, AC006037, AL009179, AC002544, U91326, AP000503, AF134726, D83989, AC004134, AC004099, Z85986, Z93023, AL022322, AC005231, AL035460, AL050312, AL049874, AC016026, AC006277, AP000704, AC016025, AC007845,

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HCWDW57	1003	927656	1 - 235	15 - 249	AC004848, AC007227, AC007151, AP000563, AC002477, AC005082, AC005899, AC006076, M94631, AC002470, AC006312, AC005914, AL049844, AL021878, AL049712, AL133448, AC004895, AC004150, AL080243, Z97056, AL135744, AC004477, AC006468, AC004821, AC005632, AP000359, AC004890, AL096776, U63721, AL022316, AC006132, AL132718, AC004686, AF207550, AC000052, AC005081, AC006125, AP000211, AP000133, U14700, AC004921, U14698, AL121655, AL109963, AL008726, AP000095, AL031446, AC005694, AC005164, AC005776, AP000239, AC005324, AC004019, AL031602, AC007537, AF111168, AC004770, AL109798, AC005527, AL121603, AC000025, U15177, AC005250, AC005670, AL031728, AL020993, AC007229, AC006141, AC005184, Z86090, AC007899, AC003682, AL049757, AL049569, AL031311, AP000172, AL031229, AC005514, AI003147, AC005837, AC004999, AC002564, AL109984, AL034421, AC005399, AL109628, AJ011930, AC004832, AC002347, AC006373, AC005696, AL034421, AC005594, AC006992, AF124523, AF109907, AL031432, AL022329, AC002553, AC005180, D83253, AC005746, AC005480, AC007437, AL023879, AC002563, AL021808, AC007686, AC004228, Z83844, AC005736, AL031321, AC005037, AC005529, AF196779, AC004485, AC003109, AC004242, AC002350, AL008719, AF047825, AC009516, AL049758, AL035587, Z83846, AC004531, M87019, AC004876, AF165926, AP000111, AP000043, AC004918, AC000120, U80017, AL031589, AC002365, Z86061, AC006126, AC002465, AC007324, AC004559, AC004812, AL096791, AL049777, AC006449, AC005740, U85195, AP000967, AL132712, AC006360, U95742, AC005544, AC005785, M37551, AL020995, X87344, AP001039, AC001039, AC004655, AC007043, X74558, AC005886, AC005913, AC005546, AC005911, AC005295, AC007676, AC006948, AC006543, and AP001037.
HCWDW61	1004	574859	1 - 351	15 - 365	AC004961.
HCWDW62	1005	849960	1 - 586	15 - 600	N83991.
HCWDW73	1006	861934	1 - 373	15 - 387	AA341865, AA363003, N40092, AI819262, AI061303, T30418, AI372604, AA322542, AW169038, H53217, AA078184, AA668166, T97322, AA572753, AA455205, AI359200, AA626840, AA515254, AI188049, AI270647, AA010973, AA420801, AL048275, AW247389, AA683091, AA350406, F00564, R95840, AA215585, AL079869, R49266, AA047849, N47855, AW327852, N52323, AA078137, N33851, AA713714, N72170, AF034180, AA470567, H60249, AI678581, H78898, H67649, AW068580, AA513884, AC003980, AC006241, AL031680, AC004552, Z93017, AC004805, AC002425, AC005069, AC005546, AC007011, AL109613, AC005632, Y14768, AC006254, AC007216, AC005920, AC005335, AC006312, AP000505, AC002073, AC007386, AC002352, AF196969, AF109907, AP000345, AL096701, AP000346, AL031846, AL031597, AC002400, AC003013, AC002398, AL049780, AL024508, AC005829, AC005089, Z99716, AL031662, AL136295, Z93930, AC004500, AP000359, AL080242, AL133312, AL024498, AC007388, AC006565, AL008718, AC005399, AC007276, AC005578, AC004895, AC011311, AP000696, AC004796, AC004491, AC006141, AC005231, AL031577,

HCWDW74	1007	952698	1-421	15-435	Z83847, AC005189, AC005015, AF200465, AC000465, AC000085, AC006075, AC005598, AC005280, U15177, AC004638, AC004843, AC004849, AL096703, AC001231, Z82194, AC005822, AC006080, AC006065, AC005954, AP000065, AC004263, AC007686, AC006153, AL121769, AC004531, AC007066, AC007263, AC005004, AL049760, AC005940, AC000159, AC006299, AC006480, AC004821, AC004477, AL121658, AC005722, AC003026, AC007227, and AF196779.
HCWDW78	1008	773698	1-336	15-350	
HCWDW90	1009	529233	1-301	15-315	
HCWDW93	1010	574155	1-401	15-415	AL137740, and AF198488.
HCWDW94	1011	753166	1-942	15-956	
HCWDW96	1012	975401	1-52	15-66	
HCWDX19	1013	523233	1-447	15-461	
HCWDX22	1014	967361	1-415	15-429	
HCWDX36	1015	861932	1-366	15-380	AW222659, AI248903, R16508, AL036251, AI688963, AI537814, AC005015, AC006512, AC000120, AF173228, AF053356, AC000119, AL096701, AP000558, AC007263, AC005519, AC002301, U47924, AC005902, AC004491, AL022316, AC005081, and AF003626.
HCWDX39	1016	573574	1-332	15-346	
HCWDX52	1017	661568	1-535	15-549	AW339619, AW169183, AI797998, AA595661, W85818, AL042667, AL042670, AL039117, AI744963, AA489390, AI732596, AI439525, AI251696, AA132047, AA748071, AW057760, AI732563, AA180056, AW265468, AW272815, AI174703, AI285651, AI049999, AI473671, AI250552, AW072963, AI254508, AA664963, AI251284, AI251203, AA564256, N70293, AA729004, AI251034, AI310670, AW409626, AI523205, C14614, AA814719, AA133568, AA598608, AI679486, AI869797, AI284543, AA599712, AA995373, AI224583, AA814503, AA639155, AI088903, AW273201, AW273146, AA425283, T03928, AW303098, AI308529, AA584484, AA503018, AA157876, AW086291, AI690179, AW020094, AW410844, N27340, AA324108, AI254770, AW409621, AA648605, AW069273, AI254267, U85195, AE000658, AC004263, Z99291, AP000510, AC002312, AC005837, AL009181, AC004587, AL109827, AL034420, AL139054, AF196779, AC005154, AL031293, AC002477, AC007384, AC004196, AB023048, AC006162, Z98036, AC006011, AC005740, AC002302, AC009516, AC005215, AL133163, AC005228, Z98051, AC007216, AC003029, AL133448, AC004973, AL121652, AL031311, AL135744, AC005041, L44140, AP000133, AP000211, AC002430, AL034549, AC005355, AC002314, AC004634, AC005067, AC005829, Z95114, AC007240, AL022165, AC005913, AC002996, AL008582, AC005065, AL022334, AL109952, Z84469, AC004522, AL049569, AL035086, AF196969, AC006285, AC005225, AL035587, AC005409, AL031427, AC004148, AC004876, AC005839, AC003665, AC004929, AP000355, AC010205, AL096791, AC005330, AC004812, AP000252, AP000356, AC005231, U47924, AC004887, AL034421, AC005257, AP000356,

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HCWDX65	1018	920877	1 - 340	15 - 354	AL031296.
HCWDX76	1019	932614	1 - 226	15 - 240	AA081685.
HCWDX85	1020	861933	1 - 330	15 - 344	T27308, and AA187085.
HCWDY47	1021	573557	1 - 303	15 - 317	
HCWDZ13	1022	657398	1 - 383	15 - 397	
HCWDZ89	1023	576697	1 - 203	15 - 217	
HCWEA30	1024	681277	1 - 396	15 - 410	AL079734, AA581247, AA452887, AI912401, AA614163, AA182731, AA559241, AW151247, AA084609, H53217, N72170, AA228349, AI146750, AW188742, F00564, AL048275, AL038842, R95840, H66577, AA713705, AA470567, AI251429, H60249, N33611, T74524, AI289505, AI635440, AA654874, AA581471, AW237905, AI742168, AA228338, AA297666, AW008169, AA181917, AI249688, AA666295, AA601674, AA502991, AA481887, AA326034, AA570255, H63660, AL109827, AC007546, M37468, U47924, AC004230, AL109758, AC004813, AC005379, AC004217, U91326, AC004150, AC006538, AC005924, AC005746, AC005212, AC004841, AC005399, U96629, AC009263, AC005332, AF003626, AC008072, AC007285, AL049643, AC005911, AP000502, AL135744, AC005288, AC004876, AL035697, AL136295, AF030453, AL109963, AF196779, AP000065, AC007277, AC004878, Z83822, AC005067,

HCWEA65	1025	849918	1-214	15-228	AF196969, AL109984, AF134726, AC005088, AB023049, AC005488, AC010582, AL034429, AC003037, AL133448, AC006071, AC004638, AC005952, AC004686, AC003036, AC004911, AP000245, AF165926, AL024498, AC007308, AC003963, AL050308, AC005587, AC004895, AC005004, AC006543, AC004890, AC006480, AL080243, AL031774, AC004787, AB017602, AL079342, AF129756, AC002300, AC002347, AC002996, AC005844, AC006441, AL030996, AC005670, AL035072, Z82243, AC005105, AC005913, AP000512, AC006530, AC005386, AL035422, AF031078, AC005913, AL035455, AC000111, L44140, Y14768, AF030876, AL031584, AC004448, Z82214, AC004491, AC006544, AL031680, AC007664, AC005529, AC007774, AC005484, AP000505, AC002476, AC005914, AC004079, AC005377, U91321, AC002470, AC002120, U78027, AC002994, AC006001, AL050341, AF088219, AC005015, AL139054, AL049838, AC006512, AC004475, AC002301, AL035457, AP000359, Y07848, AL08718, AP000699, AL021453, AC005562, AL133485, AC004019, AL109627, AL021707, AL035415, AL078638, AL049869, AC004760, AL121603, AC005619, AC007151, AC005796, AC004030, AL049872, AL022320, AC007240, D87009, AC005666, AL035249, AL035683, AC002350, AP000045, AP000113, AC007055, AC004967, AC006241, AC004675, X68793, AP000553, AC006271, AC010077, AL050332, Z83844, AC005480, Z98200, AC004263, AC005102, AC007386, AL034549, AP000694, AC007227, AC004859, AL023581, U95742, AC004854, AP000466, Z93244, AC005527, AC006064, AC000052, Z96243, AC005358, AC006254, AC002563, AC006132, AL022318, Z98048, AL035658, AC002352, AC007999, AC009516, AL078581, AL035587, AL035415, Z83840, AL049780, AC007216, AC002314, AC020663, AC004821, AF196970, AC005612, Z83840, AL049780, AC007216, AC004893, AC002126, AC006080, AL109799, AC004703, AC003110, and AC005954.
HCWEA77	1026	666180	1-359	15-373	AC009405.
HCWEA78	1027	697596	1-295	15-309	
HCWEA82	1028	719028	1-356	15-370	AC006026.
HCWEA84	1029	506718	1-331	15-345	
HCWEA86	1030	574858	1-339	15-353	
HCWEB11	1031	975408	1-65	15-79	
HCWEB25	1032	925102	1-389	15-403	
HCWEB28	1033	932114	1-341	15-355	AL139054, AC004408, AL031427, AC006285, and AL078581.
HCWEB33	1034	925286	1-352	15-366	
HCWEB37	1035	849854	1-411	15-425	
HCWEB40	1036	514584	1-488	15-502	AL046409, AL079645, AI732151, AI754955, AI587583, AI061313, AL120343, AI431303, AI755214, AI754567, AA651639, AW265385, AI244127, AI754105, AW069227, AI254779, AL044858, AA574442, AA284247, AI754653, AW020088, AL042635, AW301350, AW303196, AJ919265, AI281881, AA527602, AW162288, H07953, H05940, AW275432, AW274349.

AI590906, AI799642, AI188390, AI311647, AI053784, AW328331, AL040054, AW023111, AI679782, AA833875, AA833896, AI732764, AW327624, AI792529, AA644090, AI587565, AW157005, F13749, AL119838, AI696793, AA581903, F35374, AA600202, AI358089, AW162049, AW073470, AI929531, AI054193, AA657835, AA676592, AI885488, AL042856, AI654247, AW020092, AW069783, AI028510, AW004911, AW068996, AA829036, AI926728, AI912401, AA501784, AA533042, AW029038, T74524, AI821486, AI537020, AI216998, AI064864, AL138455, AI754023, AW304805, AA992126, AI821814, AA610509, AA226584, AA846935, T50676, AL042373, AW270385, F27015, AA773463, AA809546, AW410354, AA492495, AI339850, AI368745, AI801505, AW088202, AW328446, AC005256, AL049869, Z95115, AC007774, U29953, AC004531, AC005089, AC007487, AC007687, AL035587, AC005037, AC006511, Z85986, AL096791, AL022328, AC012627, AC005207, AF050154, AC006001, AC004883, AC005921, AC005856, AL022329, AC007204, AC002369, AC005377, Z98941, AC005399, AL022165, AL022476, AC002377, AC005971, AC005726, AC004590, U91125, Z98743, AC006251, AC007536, Z84480, Z98200, Z99943, AC007030, AL022313, AC005095, AC008115, AF015156, AC007676, AL096701, AC005581, AL023575, AC007227, U78027, Z95152, AC004859, AC007216, AC006449, AL035422, AC004797, AC005695, AL049636, AC003070, AC002425, U96629, AC005224, AC004455, AL049643, AF075098, AP000116, AC005184, AC005701, AC005378, AC005529, AC006088, AC003043, AC005619, AC005368, AC006026, Z99716, AL022238, AC005081, AC004821, AL031447, AC005261, Z84469, AL136295, AC006023, AC022517, AC007435, AL079340, AL008730, AL049697, AC005722, AC004832, Z82182, AC005520, AJ006996, AL049539, AC003108, AL133246, U95742, AC005180, AC005943, AC004770, AL034371, AC004685, Z97056, AC006121, AP000065, AC005592, AP000210, AP000132, AL031282, AP000350, AC004596, AL024509, AL117694, AC004099, AC004098, AL034548, AL024474, AC007688, AF015151, AC004263, AC005972, AL008635, AC005800, AC007277, AC004999, AP000248, AF064861, AP000694, AL008726, AC009516, AC005209, AP000466, Y14768, AL049776, AC006241, AC005808, Z84487, AL021397, AF196779, AF053356, Z82244, AF207550, AP000503, AC004559, AC000353, AC005332, AC006120, AL031650, AC002119, AC004638, AL050318, AL109627, AP000505, AP000359, AP000553, AC006512, AC005057, AC005736, U85195, AC006509, AC006077, Z98742, AF134726, AL132796, AL049766, AC005519, AC005360, AC006277, AC005015, AC006071, AL009181, AC005901, U47924, Z98883, AP000086, AP000496, U41384, AL133243, AL022323, AL078634, AC002314, Y18000, U62293, AC004253, AC004887, AL022326, AC002400, AC006273, AE000658, AL049576, AL031003, AP000008, AP000114, AP000046, AC005291, AC004858, AC000026, AL121603, AC006312, AF146191, AL050321, AP000152, AC005031, AP000555, AF190465, AC004765, AC006064, AL050307, AP000356, AC006530, AC006952, AL049650, Z93241, AF196969, AC005179, AL121658, U18399, AC002059, AC002563, AC002553, AC006230, AC006372, AL031685, AC004106, AC002553, AC003982,

Clone	SEQ ID	cDNA	5'	3'	Accession Numbers
HCWEB56	1037	527051	1 - 534	15 - 548	AC007136, AL121748, and AL031279.
HCWEB71	1038	573147	1 - 423	15 - 437	AW362435.
HCWED11	1039	948689	1 - 429	15 - 443	AA724231, AW021007, AA278496, AI624379, AI439676, AA565911, AA837771, W63553, AL041613, AA569734, T03928, AW242279, T40210, AA354507, AI624234, AA864815, AL119563, AA740736, AA493784, AI459866, AI018726, AA507990, AA557945, F29968, AC010202, AL049553, AL031279, AC004104, AL034553, AL117694, AC007011, AL109627, AL096712, Z95152, AC006312, AL031283, Z93241, AC005243, AL031674, Z82215, AL096775, U24498, L39891, AL035681, AL035405, AL035683, AC005256, AC006146, Z85996, Z82179, AC005747, AC003950, AL031846, AC005821, AL135783, AC008041, AL079342, AC002430, AC003692, AC005519, AF196969, AC001644, AL021937, AC007510, AC004816, AC005358, AC002316, Z99774, U91323, AC007384, AC000025, AF139813, AC005089, AC002375, AC002978, AL049759, AL023807, AL035249, AC004228, Z95115, AF196971, AC004084, AC005696, AL034384, AC002395, Z82194, AC005632, Z83844, AP000355, AC002073, AP000359, AC005529, AC005919, AC005624, AC005600, AC004491, AL009181, AC006343, AC010205, AL031848, AC004961, AC005578, AC004953, D88268, AF001552, AL034429, AC002094, AC004552, AL049743, AC004889, Z97056, AC005940, AC008119, AL031666, Z82182, AL078463, AL050318, AC005156, AL021940, AC004687, AR036572, U91328, Z84484, AC005565, AC005244, AC005793, AC004125, AC007371, AC007057, AL049872, U52112, AF109907, AC004799, AP000346, AL022721, AF035397, AF003627, AC005509, AC006441, AL031228, AC005379, AC004025, AC005335, AC007537, AC003010, AL008583, AL109956, U82696, AC005332, AL031985, U12387, AC012384, AC006316, AC009336, AF037338, U95743, AC004771, AL109657, AC005841, U95740, U30518, AL031729, AL133500, AP001063, AC004770, AC005538, Z85987, AC006486, and Z82190.
HCWED13	1040	573413	1 - 450	15 - 464	
HCWED61	1041	971865	1 - 469	15 - 483	AA995856, AI672210, T99719, AW148336, AI791144, AW440956, AW907133, T05187, AI000677, AI678727, AA586390, AA767864, AA285156, H52303, AA018440, AI660071, AI270092, H91317, AA490072, AI798234, AC004876, AP000302, AL024498, AC005525, AL031280, AC003964, AP000046, AP000114, Z93241, AC005585, Z85997, AC007050, AF196970, AC000072, AF121781, AC006238, L77569, AC002302, AL050402, AC004623, AC005609, AF059321, AC007371, L13972, AC002563, AL022336, AL023878, AC005182, AP000501, AL034408, AC005067, AL050309, AC005358, AL035249, AC004703, AC006137, AF155238, AC007406, AC007955, AL133500, AC006270, AC005015, and AC004230.
HCWEE02	1042	920544	1 - 254	15 - 268	
HCWEE03	1043	924743	1 - 536	15 - 550	AA960780, and AC004542.
HCWEE07	1044	953731	1 - 398	15 - 412	

HCWEE22	1045	572960	1-338	15-352	
HCWEE74	1046	738264	1-305	15-319	
HCWEE76	1047	770169	1-277	15-291	
HCWEE83	1048	781302	1-213	15-227	
HCWEF56	1049	573570	1-449	15-463	
HCWEF91	1050	849919	1-281	15-295	
HCWEF92	1051	573568	1-350	15-364	
HCWEF95	1052	526766	1-422	15-436	
HCWEG09	1053	523251	1-329	15-343	
HCWEG23	1054	531421	1-395	15-409	
HCWEG31	1055	693687	1-400	15-414	AP000323, AP000053, AP000121, and AP000168.
HCWEG47	1056	574191	1-355	15-369	
HCWEG51	1057	964642	1-290	15-304	AI828787, AC004983, AC004967, and AC006101.
HCWEG69	1058	948693	1-234	15-248	
HCWEG70	1059	881254	1-431	15-445	H30197, H79077, R79607, R81361, W15301, AI141202, AA176978, R18372, AA570224, R02744, AW029277, AA579368, AA492524, AA493628, R94876, AA831826, H72049, H73336, AW117723, AW117704, AI652371, AI312527, AC005940, AL022323, AC004912, AL117354, AC006139, AC009028, AC008009, AP000514, AC004638, AF001548, AP000701, AC004687, J00081, AC004854, AC000046, AC007014, AC007182, and AL035691.
HCWEG86	1060	572980	1-357	15-371	
HCWEH27	1061	527050	1-391	15-405	AF077000.
HCWEH53	1062	967056	1-429	15-443	
HCWEH76	1063	574187	1-319	15-333	AA808851, AA650159, and AA654653.
HCWEH93	1064	933146	1-314	15-328	
HCWEH94	1065	667919	1-744	15-758	AI733856, AW069227, AA410788, AW340905, AI625604, AW021917, AW068596, AA916430, AI687343, AA574442, AA847704, AW328331, AI890324, AA643770, AI963720, AA833875, AA833896, AW237905, AW117740, AI669589, AW084445, AA610509, AI634187, AA669155, AL079734, AL046409, AA502991, AI679759, AI061313, AJ753488, AI926728, AL079645, AA468505, AA535216, AW328000, AI345681, AW023111, AA847499, AA579179, AI345675, AI284640, AW029515, AL040374, AI457313, AA719073, AI817230, AI583142, AW438542, AL040054, AI040051, AW303196, AI590442, AA644090, AW021583, AI613280, AW069769, AA904211, AA702637, AI431303, AA602906, AW301350, AI345695, AI254779, AI732483, AI282479, AA297145, AA630854, AA714011, AW193265, AA228778, AW419262, AI587583, AI587565, AL135377, AI753113, AW327868, AI138455, AA224889, AL119691, AA665330, AI270117, AA455483, AA127426, AI247101, AL037632, AI923050, AI566408, AW023672, AI613389, AA904275, AI679294, AI891080, AL138265, AI267356, AI859438, AI732865,

AI281730, AI431513, AW327624, AI251576, AA053463, AI244127, AL042753, AI284543,
AI610920, AA622801, AW265688, AA832016, AI368256, AW410844, AA832175, AI223626,
AA526542, AA668455, AW270385, AI336054, AI250552, AA483606, AI361090, AL047349,
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AA832145, AA570740, AW341903, AA526326, AI275082, AW407578, AA721645, AL038842,
AI791185, AA828047, AA650053, AI149478, AA526625, Z83844, AC006468, AC005484,
AP001067, AC005488, AC007191, AP000331, AC020663, AC005527, AP000172, AP000057,
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AL049795, U95740, AC005229, AP000688, AL022326, AC002369, AL031311, AC005701,
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AC005746, AL121653, AC004962, AC005519, AL023575, AC005837, AL022163, X14448,
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AC005829, Z97054, AC006274, AC000115, AC009946, AL030996, AL049758, AC007277,
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AC005940, AC006530, AC004491, Z82203, U78027, AC004593, Z98051, AC005730, AC006965,
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AF129756, AP000228, AC004030, AC005899, AC007546, AC005856, AL109801, AC007536,
AC004841, AC005726, AL133289, AC007842, Z98742, AC004674, AC002991, AC005913,
AF196779, AF015156, AP000140, Z84572, AC011504, AP000359, U95742, Z95114, AL135960,
AJ131016, AP000343, AC005755, U66059, AC005089, AC004235, AC003101, AC019014,
AC005844, AC008372, U07563, AC007686, AL034429, AC004967, L39891, AC005280,
AC007216, Z97989, AJ009610, AC005102, AL049757, AL096791, AC005209, AL008723,
AC004849, AC005821, AC005088, AC005081, AF165147, AC005412, AL021367, AB003151,
AC005071, AP000088, AC005368, AC005358, AF165926, AC005154, AC005694, U62317,
AC005777, AL133245, AC005619, AL050318, AL096701, AC004659, AC006050, AL096776,
AC006208, AL022721, AP000692, AL023577, Z82188, AC003690, AL096757, AC002350,
AC004061, AC005531, AD000813, AC004463, AC005776, AC004106, AC000052, AC004960,
AC004985, AJ010597, AL034449, AC004686, AL031846, L47234, AL031680, L11910,
AC004663, M89651, AP000501, AC011604, AL136295, AL031432, AC003663, AL109758,
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AL109628, Z93020, AC005037, and AC006071.

HCWEI19	1066	948690	1 - 297	15 - 311	
HCWEI30	1067	666625	1 - 259	15 - 273	
HCWEI43	1068	573508	1 - 409	15 - 423	AC004950.
HCWEI45	1069	576852	1 - 110	15 - 124	
HCWEI78	1070	861918	1 - 338	15 - 352	
HCWEI80	1071	573534	1 - 207	15 - 221	
HCWEI83	1072	529351	1 - 287	15 - 301	AP000556, and AP000557.
HCWEI91	1073	529650	1 - 516	15 - 530	
HCWEJ02	1074	920488	1 - 449	15 - 463	
HCWEJ08	1075	959734	1 - 424	15 - 438	
HCWEJ22	1076	954137	1 - 490	15 - 504	
HCWEJ26	1077	576717	1 - 377	15 - 391	AA065131, AW008791, AW009265, AI805884, and AA065200.
HCWEJ43	1078	573526	1 - 319	15 - 333	
HCWEJ69	1079	757674	1 - 244	15 - 258	AI479011, and AI538122.
HCWEJ91	1080	572857	1 - 434	15 - 448	
HCWEK59	1081	855734	1 - 331	15 - 345	
HCWEK74	1082	573134	1 - 542	15 - 556	AA601043, AA069366, AC007685, AC007284, AC004491, and AC007510.
HCWEK80	1083	574157	1 - 442	15 - 456	AP001052, and AP001053.
HCWEK84	1084	572843	1 - 241	15 - 255	AA630672, AI818231, AW303008, AA780682, AA732253, AW103927, H25921, AA092310, H51061, AA345064, AA768389, AI254980, AA588001, AA629872, N74747, C15060, H12383, AA551181, AA370455, AI344995, H93097, AA380354, AL133909, AW341978, AL138182, AA570797, AA722225, AI870197, AA372346, AA568198, AW022655, AL047429, AI014843, AI923052, AA705687, AA037715, F01503, AA531580, AI590485, AI311519, AI537772, AA583466, AI439828, AA630535, AI002744, AL045808, AL046156, AA584125, N71685, AA282820, AI205010, AA491681, AI888261, AA338544, AI278972, AI537538, F13749, AI907530, AW081296, AL038498, AI923333, AA593375, H18298, AW151022, AA483108, AA502991, R65651, AL037052, AI499301, AW162288, AW196053, AI636730, AA298319, AW021627, AI349849, AA308716, AA330772, AW276396, AW078909, AW131272, AI251576, AA833227, AA901253, AA573131, AI056046, AA092571, AA037725, AA515457, AA575911, H40324, AW317027, AI366993, T71474, AI124933, AA613761, W01639, AI289941, AI289942, AA955697, AI494539, AA626432, T77680, AI249473, AA716211, AA702098, AW104793, H81840, AI889566, AL135576, C18550, AI298061, AL096817, AC005019, AP000013, AC005752, AC007308, AC004910, D86992, D88270, AL109798, AC004797, U85195, AE000658, U95740, AC004051, AC000070, AC002288, AL109798, AC008169, AF107885, AC003049, AP000512, AC011311, AC003101, AL133246, AC006080, U40401, AC004933, AC006080, U40401, AC004674, AC005694, AP000505, AC004070, AC004596, AC003087, AC005207, AL023883.

					AL023281, AC005250, AC007842, Z98050, Z99716, Y18000, AL031670, AP000245, AB020870, AC008082, AL132985, D87675, AF109907, AC006211, AC004620, AC004911, AL031391, AC003977, AC002395, AL021877, AC005066, AL133312, AL022722, AP000253, AC005039, AC006070, AP000959, Z95116, AC005529, AC009509, AL031985, AL031289, Z82194, AC004855, AC006441, AP000553, AL080317, AC004216, AL035086, AC004526, AC003950, AL031283, AF020503, AC007253, AC004548, AC006116, AC005048, AF003626, AC004655, AC004595, Z97352, AC003664, AC007536, AC009411, AP000213, AC005730, AP000135, AP000155, U91325, AC004812, AL049647, U52112, Z83840, AC000004, AC004875, AC006322, AL109807, AC005324, AC004887, AP000031, AC002299, AC005874, AF134471, AC004985, AL009181, AC005037, AC004817, AL096794, AL049832, AC005500, AL049649, AC002528, AC004741, AL031286, AL031056, AL121603, AC006112, AC007406, AC004517, AC007688, AL049760, AF196972, AC005288, AF196779, AL035530, AL035467, AC012384, Z95152, AC002377, AL078583, AC004929, AC004033, AC005702, AC000389, AC003108, AL121653, AC007559, U82668, Z85996, AC005543, AC005578, AC010209, AC006930, AC006559, AC002563, AL031589, AC002041, AC004856, AC004815, AF088219, Z98946, AL034402, AC004455, AC008126, Z85987, AP000547, Z83844, AL034379, Z93016, AL021368, AL122023, AC003687, AF001549, AC005777, AL035398, AC006285, AC005234, AL035400, Z86061, AF205588, AP000036, AL079342, AC004858, AL078638, AC006313, AC006132, AL109801, AC004699, AL021978, AC006958, AC004622, AC000105, AF051976, AC002115, AL031259, Z84480, AL022326, AC002464, AC004087, AL034032, AL049856, AC005295, AP000244, AC008273, AC005043, AC000119, AC008039, AL004017, AC003682, AC007227, AL022323, AC000111, AC005412, AP000459, AL109613, AC003684, and AL022315.
HCWEK89	1085	861914	1 - 245	15 - 259	
HCWEL01	1086	916972	1 - 236	15 - 250	
HCWEL08	1087	881309	1 - 142	15 - 156	
HCWEL18	1088	827387	1 - 265	15 - 279	
HCWEL27	1089	572846	1 - 244	15 - 258	AC005399.
HCWEL47	1090	523304	1 - 545	15 - 559	
HCWEL52	1091	577417	1 - 449	15 - 463	
HCWEL55	1092	572951	1 - 310	15 - 324	AA694257, and N64736.
HCWEL96	1093	529223	1 - 328	15 - 342	AC004674.
HCWEM10	1094	968044	1 - 312	15 - 326	
HCWEM37	1095	573151	1 - 404	15 - 418	
HCWEM51	1096	920887	1 - 378	15 - 392	
HCWEN20	1097	529237	1 - 330	15 - 344	
HCWEN86	1098	573527	1 - 344	15 - 358	

HCWEP18	1099	913670	1-401	15-415	AW291681.
HCWEP34	1100	523238	1-436	15-450	
HCWEP39	1101	660232	1-459	15-473	
HCWEP40	1102	506759	1-278	15-292	F00112, K00650, AF111167, AC006064, AC007055, AC006312, AC004777, AC004777, AP000023, AC005331, AL078472, AC004814, AC002347, AC007064, Z98048, AL034417, AL024507, AL024498, AC006548, AC004050, AC004934, AC005182, AC002546, AC002420, AC007790, AC006381, Z83840, AC005071, AF047825, AC005822, AC012627, Z82201, AC005944, AC005914, AL031005, Z84484, AL096791, AL031295, and AC006511.
HCWEP43	1103	921346	1-412	15-426	
HCWEQ01	1104	861910	1-288	15-302	
HCWEQ14	1105	908245	1-355	15-369	R16298, AA488261, R15246, AA325932, F08114, W46162, H08289, U69190, R12912, and AC002985.
HCWEQ15	1106	660520	1-285	15-299	AA583955, AA526342, AA810078, AA219115, AA714453, AI872020, AA661921, AA610491, AA775207, AA503600, R40056, F04987, AI243584, AA316905, AI963720, AA877817, AW080134, AA782304, F18423, AA491284, AA601492, AA362698, AI696962, AI561060, AA531079, AI251436, AI061334, AW070892, AA847499, AA491814, AA664909, AA581903, AA478355, AA259186, AI686267, AA808877, AI305766, AW270343, AI119691, AI344844, AA501821, AA515231, AA828042, AA525824, R94721, AA468131, F18638, AA737150, AI247264, AI476312, F01314, AA364224, AA502720, AA634889, AI307608, AA533303, AW084252, AA715355, AW084198, T41259, AW196064, AI889923, AW276817, AA644551, AA265385, AW075511, AA935988, AI589230, AI821271, AI358343, AW265009, AA522642, AA372852, F23430, AI364809, AL038072, F19012, AI049634, AI247199, AW082492, AA623002, AI283911, AA320714, T74382, AA362348, AA653375, AA521323, AA834727, AA805815, AA521399, AI284640, AA343705, AW300625, AA362511, AA635067, AI623720, AA715255, AA715267, AA650376, AA078441, AW248819, AA934680, AA848134, AA749054, AA459749, AI635818, AA508034, AA502104, AI358431, AA662871, AA515549, AI708009, AA503154, AA604333, AA603185, F16127, F00440, AW089682, F17802, AA773902, AA604897, AA281461, AI702314, AA720746, AA320113, AI160117, AI064952, T07019, AW002350, AI270002, AI754336, AA678436, AW071163, AW023990, AL044940, AA493708, AI783494, AA532524, AA338486, AA773733, AA531186, AAS13141, AI537944, AA559290, AA531372, AA493206, F00135, AA713626, AA502866, AA346458, AA503284, AI298710, AI245679, AA985455, T52733, AA478297, AI254316, AW274349, AI561255, AL079511, AA847012, AI469624, AA503119, AA644332, F16274, T06828, AW405114, AI860020, AA629992, AA533725, AA427711, AI246119, AI459768, AI151261, Z30073, H93893, AI110688, AW327868, AA394271, AA688036, H60639, AA074130, AI583283, F17555, AW150524, N62433, AA372481, AW075948, AA502963, AA514854, AI358236, AI355206, AI679045, AI859251, AA491862, N35602, AA594145, H63262, AA908468, AI890348, AL045053, AP001172, AL022322.

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				Z85996.
				T83652, N52834, AA010013, H52946, H64159, and AA703454.
HCWEQ27	1107	849860	1 - 406	15 - 420	
HCWEQ37	1108	849985	1 - 389	15 - 403	
HCWEQ89	1109	529240	1 - 344	15 - 358	
HCWER22	1110	674807	1 - 214	15 - 228	
HCWER37	1111	849916	1 - 368	15 - 382	
HCWER61	1112	574921	1 - 89	15 - 103	

HCWER81	1113	574167	1 - 454	15 - 468	M78967, and AL031733.
HCWES03	1114	921933	1 - 540	15 - 554	D87470.
HCWES06	1115	935862	1 - 135	15 - 149	
HCWEW45	1116	571355	1 - 193	15 - 207	AI862242
HCWEW76	1117	861966	1 - 358	15 - 372	AA420421, AA420839, AW340887, T68865, AA706567, AA838190, AA363078, AA533315, AA484373, AA161177, AA161132, AA780541, AA338170, R54486, AI567402, C16659, AA356567, AA745507, AA487198, AA372887, T70121, AI914883, N74208, AI568683, AA934825, AW050400, AW328172, AW082559, AI758256, AA581099, AA648683, T52935, AA604048, F12561, AA365815, AA501614, AI291317, AW270784, AI524360, AA837560, AW328050, H67805, AW328171, T47324, AW440837, AA071173, AA600741, AW083678, AA586860, AA320748, F01979, AW269488, AI053445, F28108, AI002744, AW081610, F08248, T65635, AA229127, AA744172, C15363, AA577732, AI827234, AA071132, AA744278, AL050332, AC005274, AC006101, AP000688, AF121782, AC000080, Z84469, AL021917, AP000044, AB003151, AP000691, AC006040, AC008282, AP000330, AP000295, AP000112, AC006572, AC006946, Z82899, AC002300, U85195, D42052, AC004491, AC005663, AF061552, AC005822, AP000171, AP000056, AC002300, U85195, D42052, AC004491, AC002425, Z84466, AE000658, AC005913, AC005253, AC001643, AC005387, AP000124, AL109653, AF109907, AC008981, AC006021, AC002565, AC002461, AC007350, AC006139, AC006486, Z98950, AC005393, AC006568, AF064861, AL133241, AC006305, AC005081, L31675, AL050338, AL096705, AL049569, AL035652, D26141, AC005358, Z81364, Z79196, AL034411, AC004132, AL009179, AL009031, AC002326, AC004993, AL135746, AC004617, AL135744, AC006606, AC007786, AC007766, AP000959, AC004197, AC005944, AC006557, U89387, AC005015, AL031846, AC007096, AC002098, U71148, AC003678, AL008636, AC002483, AL035460, AC003689, AL035690, AC004953, AC006146, AF207550, AC004472, AC005902, AF064857, AC004878, AC004448, AC003101, Z84480, Z96074, AC005839, AC005660, AL031589, AL096769, AP000953, AP000160, AP000128, AP000206, AC002066, AP000245, Z83820, AL008718, AI133269, AC007298, Z68226, AC005512, AL096791, AC002110, AC004531, AB023048, AC005945, AP000511, AL035588, AC005011, AL035089, AP000687, K03021, AC010077, AL022476, AC002379, AP000126, AP000204, Z84487, AC004859, AL132712, AC005412, AB017568, Z83840, AP000244, Z97832, AC005632, AC002347, AC006132, AF001551, Z93930, AL008730, AC005754, AC005089, AL021997, AL139054, AC005406, U50871, AC008545, AC004601, AC005089, AL021997, AC004151, AB020864, AL109627, AC006966, AC005548, Z95152, AC005082, AC006254, AC004383, AC005049, AL034429, AL050401, AP000884, U95742, AL031733, X90725, Z80897, AC003110, AL008719, J03071, AC006252, AC002550, AC005868, AP000152, AP000010, AL034423, AC006253, AC008062, AC009743, AC007262, AL022165, AC003081, AF047825, M63796, AC006023, AC006013, Z95113, AC007151, AC005486, AC004596, AL031681, AL031668, AC010206, Z69890,

HCWEW77	1118	664922	1 - 416	15 - 430	AC007216, AC005562, Z97181, AP000345, AP000257, AL096701, AC005071, Z95114, AL032821, AC007774, AL021807, and AL021546.
HCWEX05	1119	928121	1 - 326	15 - 340	AL020995.
HCWEX40	1120	574940	1 - 251	15 - 265	N87989.
HCWEX59	1121	709560	1 - 344	15 - 358	T56067, AA652057, AW248803, AA664148, AW249224, AA369477, AL138242, AA569187, AA584581, AA125788, AA828704, AI079667, AA834755, AA594725, AI168185, AW193500, AA179136, AA443390, F07193, AA516527, AL13723, AA365347, AA012897, H00034, F37169, T62975, AA503947, AA515346, AW406162, AA650271, AI889781, AI648558, AA502103, AA906889, N53150, AA904140, AA515435, AI678392, AA831388, AA364315, AA483223, AI801591, X06123, AC002350, X61109, AC007193, Z83845, AC005013, AP000967, AL022329, AF200465, AC006285, AC005215, AC005565, AC005537, L81693, Z83826, U78027, AC005071, AC007666, AC003035, Z82188, AC004073, AC006965, AC006006, AL035422, AL035695, AC005385, AC005962, AC006312, AC005365, AC005003, AC005324, AC006600, AC000052, AL034420, AF165926, AC005736, AF109907, AP000362, AP000553, AP000010, AP000152, AL132712, AP000555, AC004019, AC002472, AC000159, AL121603, AC007565, AP000348, AC006571, AB016897, AP000354, AC003038, AC005755, AL035600, AC002077, L48038, AC004263, AC000353, AL080317, AL031589, AL008582, AR036572, U91328, AB023049, AC002483, AF006501, AL133396, AL022721, Z99716, AL035494, X03272, AL022476, AC004797, AL049776, AL022323, AF196779, AP000692, AL035089, AC004909, AC005740, AC002312, AC006211, AL021453, Z98200, AL031447, AC005822, Z97184, Z73360, AC002349, AC002301, AL139054, AL009178, AC007115, AL035460, AL035417, AL035681, U62293, AC004813, Z82244, AL023553, AL050332, AC004865, AL080243, AC000039, AL022328, Z98946, AC007999, AF134726, AC020663, AL009179, AC007664, AL022313, AC002448, Z69705, AL109963, AF019413, AC006130, AJ003147, AL049780, AC006039, AC005043, AL031257, AC005211, AC005057, AL135744, AC005200, Y07848, AC005516, AC006538, AC006530, AP000162, AP000020, AP000087, AC005670, AL021366, AC005783, AC005911, AL023879, AC005212, AC004622, Z69651, AC007308, AC009516, AF111168, AC004754, AC005235, AC005304, AL035072, AC005527, AL050338, AC003085, AC005730, AC007842, Z83822, AC005281, AC007285, Z98048, AC007182, AC005081, AL133245, AL023807, AC008079, AL031685, AL050318, AL031446, AC004099, AC005041, AC005940, AL031668, AC005776, AP000557, Z97056, AC005754, AC000026, AL022311, AC002402, AC016025, AC005544, AP000151, AP000226, AC005274, AC007011, AC005274, AL008715, AC004890, AF091512, Z86090, AC007543, AF121781, AC007011, AC005274, AC007537, AC007324, AC012384, AC006515, AL035659, AL031666, AL035692, AL008718, AC007537, AC007324, AC012384, AC006515, AL035659, AP000047, AC005829, L76568, Z98742, Z85986, Z83844, AC005969, AL132777, AC002470, AP000173, AP000500, AL034548, AP000502, AC004463, AC018633, AC006946,

					Z73359, AL049856, AC002059, AC004856, AC005069, AP000359, AC004638, AC004858, AC002067, AL049757, and AC004033.
HCWEX66	1122	731772	1 - 323	15 - 337	
HCWEY07	1123	953701	1 - 412	15 - 426	
HCWEY33	1124	702597	1 - 418	15 - 432	AC005911.
HCWEY34	1125	954142	1 - 233	15 - 247	
HCWEY84	1126	952692	1 - 458	15 - 472	AA598892, AA508036, AA525293, AA984829, AI918419, AA126277, AA172365, R22248, AI272052, AA369260, T94592, AL096701, AF196969, AF196779, AL031597, AL034417, AD000092, AL049757, AC006449, AF030453, AC002312, AC005088, AC002395, AC004150, AC005089, AC004216, AL031053, AF053356, AC006487, Z98051, AC005049, Z83851, AF109907, AP000555, AC006480, AL021578, AC006211, AC005081, AL031311, AC004382, AC006312, AC007308, AC005005, AL023553, AL049829, AL049631, AL121652, AL109801, Z95114, U85195, Z83826, AC007450, AC000134, AC004858, AC004841, AE000658, AL021920, AC005920, AC005067, AC007226, AC005702, AF111168, AC002546, AC002477, AL117344, AC004134, AC005184, AF001549, AL050321, AL121769, AC004797, AC005632, AC006511, AC004019, AL133243, AL050321, AL121769, AC004797, AC007999, AC005808, AJ229041, AC007193, AL023653, U95742, Z82203, AC007371, AC006111, AC000353, AL035422, AL009181, AC006360, AC005839, AC005480, Z95152, Z94056, AC005399, AL021394, AP000512, AC005015, AF017104, AL020997, AL121578, AF003626, Z86090, AC005914, U78027, AL050341, AC005609, and AL02223R.
HCWEY88	1127	785508	1 - 321	15 - 335	H44471, AI246061, AA161305, AA224525, AA555143, AA664248, AW270429, AI860535, AW270351, AI223626, AA135868, AW019964, AI054090, AI278972, AA565911, F32248, AI284543, AI254770, AI251944, H09639, AI251034, AI251203, AI251284, AI250552, AI251241, AJ249853, AW265149, W32993, AW151870, AW058430, AI053934, W63553, AI053597, AA862312, T03928, AA487299, AW303098, C15504, AA340153, C14796, AA832152, H47368, C14627, Z95116, AC010206, AC005913, AF118808, AC005844, AC004662, AC006360, AC006313, AC004465, AL034400, AC034815, AC002365, AC004984, AL034549, AC007676, Z95118, AC008009, AL009181, AC005565, AC002465, AC005841, AC006388, AL031665, AL033397, AC007276, AC007028, AC008041, AC005746, AC002312, AF196969, AC004799, AL135746, Z97630, AL050318, AC005291, AC005288, AC005207, AC002369, Z94801, AC006121, AC002425, AF129756, AC003959, D88270, AL022162, Z94056, AC005237, AC005519, AC006352, AC002041, AL049745, AC005015, AC005488, AC005856, AC006130, AC005632, AL096701, AC004963, AC005015, Z93017, AC009946, AC006359, AC005740, AC006241, AC004813, AC007263, AP000555, AL034418, AL117354, AC002287, AC005736, AC008044, L29766, AL080242, Z83843, AL035683, AC005696, AL049539, AL121825, AC004150, AC004941, AC004895, AL023284, AC004185, AP000475, AC004686, AL031651, AC004033, AJ011930, Z98950, AL035405, AL021807, AC004386,

HCWFA14	1128	925301	1-479	15-493	AC002456, AL022324, Z81364, U95740, AC003962, AL022323, AC005049, AC004804, U91323, AC007671, AC005251, Z98742, AL139054, AC005476, AL035423, AC006487, AP000502, AC003957, Z95331, AL022334, AC005776, AL049869, AC002477, AC007066, AL078581, AC007114, AF222685, AL031848, AL021937, U48697, AC005412, AC006333, AF134726, AF050154, AC004152, AL078634, AL022313, AC006441, AF130248, AL050308, AC000082, AL031311, AF107885, AP000045, AP000509, AC004856, AL031666, AC005401, D87675, AP000512, AF196972, AL049834, AC006057, AC004148, AC008018, AF031078, Z82097, AC007537, AL008635, AC002544, AC007092, Z93023, Z84481, AC005157, AC004997, AC005274, AF030876, AC007666, AC004797, AL109939, D86992, AC006552, AP000300, U96629, AL022393, AC002449, AC005585, AL031320, Z85987, AC003086, AC005200, AL133163, AC007899, AC004912, AC005585, AF001552, AL031432, AC006950, AL035422, Z98749, AC006026, AC004876, D86995, AF001552, AL031432, AC006950, AL035422, Z98749, AC005089, and AC006392.
HCWFA65	1129	573193	1-236	15-250	T61555.
HCWFA88	1130	578943	1-365	15-379	AP000126, AP000204, and AP000244
HCWFA89	1131	574370	1-257	15-271	AC002039, AC002045, U91326, AC002544, and AF001549
HCWFC05	1132	932194	1-360	15-374	AC007283, and AC008179.
HCWFC17	1133	573186	1-367	15-381	Z98744
HCWFC65	1134	883787	1-340	15-354	
HCWFD07	1135	953700	1-571	15-585	
HCWFD19	1136	574915	1-267	15-281	
HCWFD29	1137	573381	1-210	15-224	
HCWFD47	1138	671946	1-300	15-314	AI799197.
HCWFD64	1139	954575	1-363	15-377	T81407, AC006942, and AF064861.
HCWFE06	1140	935856	1-379	15-393	AA663467, and AA663457.
HCWFE18	1141	573445	1-99	15-113	
HCWFF41	1142	849978	1-135	15-149	
HCWFF88	1143	806577	1-304	15-318	
HCWFJ65	1144	578936	1-386	15-400	
HCWFJ72	1145	856008	1-625	15-639	AA594971.
HCWFK16	1146	849988	1-187	15-201	
HCWFK20	1147	575696	1-225	15-239	
HCWFK35	1148	916795	1-540	15-554	AA491175, and AC003957.
HCWFK57	1149	861907	1-314	15-328	
HCWFK73	1150	761655	1-304	15-318	AA093114, AA523605, AA487226, AI364568, AA869786, T62078, AI869786, H95822, AI686470, H81700,

HCWFK91	1151	954008	1-315	15-329	AA214042, AA297006, AA021561, AA056250, H69992, F34939, C16358, H45698, T94394, AA58274b, AI697242, AA225004, AI371722, AI003444, AW264391, AI865580, AI697239, W81372, AI697235, AA558366, AI355246, AA564800, H64715, H68379, AA668587, AI973173, AA828476, AW019964, H29241, AI229417, AW419389, AI367551, N25079, AA243976, H29914, AA568314, AA378489, AL031591, U47924, AC004841, AL008730, AC005015, AJ010770, AC003037, AC001228, AL133243, AC005839, AC004999, AC005726, AC005694, AC002470, AC006449, AC005520, AL049872, AC005736, Z84466, AL009181, AL049795, AC005480, L44140, AC007263, Z97055, Z98950, AP000692, AF152365, AC006360, AC003663, Z73359, AC002544, AC007308, AF196779, AC006241, AL132987, AL031848, AL049874, AC005519, AC004832, Z86090, AC005399, AC006045, AC007066, AC005088, AC005412, AC004476, AC002302, AC004033, AC005529, AC004765, AC005486, AL096701, AL032821, AC005684, AC004232, AC004921, AL139054, Z98036, AP000354, AB026898, AC004816, AC007637, AP000300, AL096791, U80017, AP000010, AP000045, AL031295, AC000079, AC009784, AL109827, AL080243, AC004522, Y10196, AL035420, Z99716, AC007057, AC005071, AL133448, AC004783, AC002432, Z84469, AC002395, AC004216, Z97632, AL133246, AC004770, AC006020, AC003086, Z83844, AC007179, AL031864, AC002073, AL031589, AC004019, AP000043, AP000111, AP000049, AC004518, AP000557, AC002563, AC005821, AC007390, AP000066, AP000113, AC006088, AC005102, AC004217, AC007363, AL121840, Z99127, AP000503, Z97053, AP000311, AC005488, AC005049, AC003029, AC004381, AP000553, X55448, AC004967, AC004659, AP000689, AC002996, AP000356, AC006111, AL024498, AF134726, AL022326, AF165926, AL008729, AL034549, AL121658, AL031667, AF111168, AC004687, Z98742, AC004813, AC005324, AC004223, AP000961, AC005899, AF196969, AC006487, AC006013, Z97181, AL022721, AF060568, AC006021, AC005089, AC005081, AC003108, AC005566, AC004797, AC006387, AJ011930, AL035685, Z73417, AC005793, AC005280, AC012384, AF024533, AP000552, AL035681, AC003982, AL031659, AC007114, AC005386, AL035249, AL035683, AC002351, AC004253, AL008707, AC000025, AC005740, AC008372, AC004099, AC005225, AC005225, AC002492, AC005527, AL049694, AL034421, AC009516, AC000353, AC009509, AC006254, L78833, AB023048, and AL031291.
HCWFL10	1152	964853	1-317	15-331	U63630, AC005746, Z95152, L78833, AB023048, and AL031291. L44321, AL096867, AL022154, AC007567, AL034402, and AC004853.
HCWFL31	1153	953579	1-186	15-200	AL031673.
HCWFL45	1154	577950	1-402	15-416	AA579235.
HCWFL78	1155	529218	1-288	15-302	
HCWFL86	1156	523359	1-417	15-431	Y13758.
HCWFL94	1157	575522	1-290	15-304	N21434, AA126969, AW069769, AA551548, AA640563, AI031759, AA664248, AI300507, AI183392, F31670, AA507623, AA219166, AA837771, AI567676, AA648605, AA558402.

AA558716, W00479, AJ521019, AI538404, AI884404, AA774169, T57096, AA846046,
AW271071, AA225630, AA657808, AI251024, AW407679, AI872229, AA715508, R126600,
AI281622, AI803824, AI241851, AI267356, AI926093, AW023975, AA364082, AI754257,
AI801479, AA984891, T41134, AW243817, R33053, AI961232, AW085811, AA349923,
AA602939, AI520984, AA987703, AW268793, AW439224, AI267450, AI065031, AI921744,
AI745666, AA018923, AI032411, AA533011, AA364147, F35684, AI732911, AI185394,
AA507990, AI252726, AW406139, R95751, AI174827, AI668566, AA309287, AA808842,
AI469564, R33588, AA873661, AW157128, AI274691, H49749, AA633068, AA012829, H79323,
AI039257, AA640305, C14724, AW022796, AA601712, AI733523, AI038029, AI434103,
AI828742, X84712, AA630122, AI708565, AA367920, AA338238, AW021674, AI888852,
W02419, AA730530, AF075069, AF129756, AI035587, AC005399, AF165926, Y18762, Z83845,
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U02057, AC006544, AL080317, AC005531, AC000039, AL020997, AL035445, AF196972,
AF030876, AC007371, AC007051, AC007919, D42052, AC004053, AB023051, AP000116,
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AC006581, AL050320, AP000512, AC007226, AC005069, AL031848, AC004678, AC004668,
Z83844, U78027, U91326, AC002544, AC006538, Z69366, AC007878, AL035422, AC007462,
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AC003042, AC008372, AC005993, AL022336, AC006599, AC007687, AL121658, AL031721,
AL049829, AC006062, AL008735, AL035086, AC000134, AL034548, AC006388, M81890,
AC005527, AJ251973, AC002369, AC006511, AC009516, U26425, AC004234, AF111168,
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AB023048, AC005519, AC007277, AP000511, Z84480, AC007314, Z81369, U63721, AC004592,
AC004073, AC007934, AF031077, AF134726, AL135783, AL035450, AL031295, AL079295,
AC008044, AC006241, AC004257, AL049569, AL096699, AL049759, AC006088, Z95114,
AL021707, AL023801, AF031078, AC005565, AC005952, AL035413, AL035652, AC016027,
AC007227, AL034421, U91322, AC009248, AL008731, AC002492, AC005747, AL034553,
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AC005365, AL135744, AC005031, AL022333, AC002310, D16517, AC006261, AB000882,
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AC004019, AC004814, Z83840, AC002991, AC004844, AP000510, AC004797, AC004477,
AL133448, AC005778, AF076450, AC004975, Z84469, Z98051, AC005682, AL035045,
AL035455, AC000075, AC000084, AC004703, AC006369, AC004673, AC006449, U80017,
AC004897, AC007773, AC004130, Z82182, AL008628, AL122020, AC005325, AC006064,

HCWFM01	1158	916803	1 - 217	15 - 231	AC008115, AC004883, AC002400, Z93017, AL122023, Z69713, L78833, AC002036, AP000098, AP000099, AC005911, AC005375, AC005755, AL031284, AC007450, AC004997, AP000275, AC002994, AC016830, AC109613, AC007016, AC005046, and AC005914.
HCWFM11	1159	959457	1 - 365	15 - 379	AA054176, AI660046, AA385708, R79698, AC003688, AP000096, AP000240, AL020997, AC006946, AC005070, AL096794, AL049849, AL079340, AL109914, AL049646, AF111169, AC007073, AC005071, AI251973, AP000549, AF001549, AC005684, AC006953, AC004517, AC003065, AC005865, AC005033, AC005389, AL034406, Z98200, AC007842, AP000512, AC006544, Z82249, AL078583, AC005699, and AC010168. AA640305, AA156183, AI754257, AA631915, AA720732, AW083707, T71936, T58395, AI869455, AA862243, R68249, AA129133, AA883595, AA747469, AI241761, AW021105, AW023167, AI207424, AA804726, AA936746, AI230815, W01344, AI744199, AI763234, AA324242, R76686, AA776899, AA664963, AL135357, AL044701, AA593537, AI984742, AI917132, AW072963, AI307563, AC002470, AC004841, AC002094, AC005399, AC007066, AC005207, AF111169, AC004820, AP000240, AC005529, AC005300, AP000092, AP000096, AL135744, AC003684, AC008018, AC007263, AC007312, AC004707, AL031670, Z93017, AC005088, AF001548, AB003151, AL035423, AC006511, AC007312, AL031293, AL022721, AF111168, AC004167, AC005295, AC002369, AL049653, AC006241, AL031293, AC004234, AC004859, AC005251, AC005251, AC003043, AL021397, Z99127, AC004234, Z93884, Z93930, AC006509, AF165926, AP000322, AC002375, AL049839, AF129756, Z98884, Z84480, AC005071, AC007774, AC007395, AC006001, AC005224, AC002377, AC006121, Z84480, AC004922, AL033524, AC000159, AP000361, AC004129, AL132987, Z84469, AC004076, AF053356, AP000153, AC005231, D87008, AC004477, Z97056, AF196969, AL035458, Z82246, AC002351, AP000053, AP000121, AP000557, AC007277, U29895, D87012, AL133246, AL049538, D88268, AC004263, AC004583, AP000065, AP000280, AP000030, AL022336, AL034429, AC005253, AC005166, AP000215, M57678, Z98304, AC005370, AC002477, AE000658, AC005632, AC005070, AC005821, AL031311, AC004762, AC003982, AP000505, AC007308, AF176815, AP000107, AP000039, AL109839, Z99943, AC005772, AC007228, AC002060, AL096791, AP000556, Z86061, AP000497, AL049557, Z73420, AP000558, AL031733, AL035420, AC005856, AF024533, AC006530, M63543, AC003038, AC006455, AC005519, AC007565, AC006077, AD000812, Y11107, M63480, AC002400, AC004805, AC005919, AC005940, Z69713, AC002301, U85195, AC006254, AC007537, AC004491, AL023096, AL078463, AC005755, AC004815, AL035249, AC007676, AF038458, Z93016, AL033521, M63544, AP000348, AC002563, AC005875, AC005726, AP000694, Z93016, AL049776, AC009516, AP000038, AP000106, AL031284, AC004472, AC007664, AC006160, AL034851, AC005023, Z92542, AC006376, AL035462, AP000228, AC005520, AC004851, L81692, AC004799, AL035587, AC002395, and AL031681.

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Name	No.	Value	Range1	Range2	Accession Numbers
HCWFM16	1160	678627	1 - 368	15 - 382	W07244, H81645, H87712, Z18338, AI627848, AL022476, AF128536, and AF128535.
HCWFM26	1161	677348	1 - 356	15 - 370	AL021918, AC003070, Z93017, AL022316, Z97876, AC008079, AC004228, AL109827, AP001054, Z81370, AC008018, and AC004678.
HCWFM43	1162	715387	1 - 88	15 - 102	
HCWFM59	1163	757660	1 - 338	15 - 352	
HCWFM60	1164	740470	1 - 410	15 - 424	
HCWFM65	1165	849957	1 - 252	15 - 266	AI349018, AC006512, Z85987, AL117338, AC005920, AC003982, AL031681, AL050318, D87675, AC005233, AC007226, and AC008072.
HCWFM77	1166	706488	1 - 152	15 - 166	
HCWFN14	1167	680404	1 - 351	15 - 365	AL134393.
HCWFN22	1168	674750	1 - 381	15 - 395	
HCWFN37	1169	576547	1 - 255	15 - 269	
HCWFO01	1170	916814	1 - 357	15 - 371	AI657485, N83963, N88177, N87188, N83707, AR018815, U39066, U48696, AF045432, AI243486, U48697, AF102850, X99060, AF001863, AF061744, X99056, X99052, Y16299, X99058, X99051, AF011573, and X99055.
HCWFO02	1171	920416	1 - 372	15 - 386	
HCWFO20	1172	577709	1 - 303	15 - 317	
HCWFO24	1173	664581	1 - 328	15 - 342	
HCWFO30	1174	692814	1 - 316	15 - 330	
HCWFO40	1175	913855	1 - 407	15 - 421	
HCWFO51	1176	725756	1 - 72	15 - 86	AC002540.
HCWFP21	1177	531288	1 - 442	15 - 456	
HCWFP27	1178	927700	1 - 287	15 - 301	
HCWFP47	1179	849893	1 - 398	15 - 412	
HCWFP71	1180	933211	1 - 341	15 - 355	T65964, R01423, R01424, R05277, R44699, R51780, R44699, H11322, H13859, H13911, H21393, H22117, H45982, H98744, N37080, N62715, N93640, W60228, W76544, W87768, W90518, AA010775, AA011055, AA029083, AA029084, AA036822, AA057660, AA082814, AA101057, AA130702, AA132788, AA147813, AA151511, AA173298, AA187094, AA192370, AA243010, AA250948, AA521284, AA535404, AA594843, AA603875, AA627091, AA662313, AA721002, AA761271, AA826710, AA865743, AA975254, AA995525, C05796, AA206634, AA654116, AA283178, AA291958, AA291959, AA452464, AA628258, AA634632, AA447651, AA777137, AA812493, AA835567, AA846451, AA852494, AI003962, AI084740, AI094339, T23658, Z41681, F03361, F03690, F09370, AI245866, AI251909, AI280679, AI202164, AI474105, AI524387, AI540076, AI479426, AI498061, AJ566416, AJ582492, AI127570, AI187378, AI191272, AI279638, and AJ587165.
HCWFP81	1181	576363	1 - 306	15 - 320	

					Accession numbers
HCWFR11	1182	967266	1 - 170	15 - 184	
HCWFR83	1183	721373	1 - 450	15 - 464	
HCWFS22	1184	971566	1 - 365	15 - 379	AI830563, AI675015, AI634079, AI766110, AI924352, AA506986, AI419874, AA417050, AI582146, AW302226, AI653082, AA707615, AA947674, AI824293, AA417181, AA923538, AI367252, AA344961, AW418521, AA559136, AI253198, AI028337, AA835007, AI367250, AI081854, AW116460, T12625, AI873313, AA879191, AW087636, AI207096, AW087600, AA904762, and AI198471.
HCWFS65	1185	572953	1 - 238	15 - 252	
HCWFT29	1186	690751	1 - 357	15 - 371	AL041375, T52772, AI572680, AW275432, AI801563, AA493464, AA810158, AW238575, AA601376, AA355367, AA515924, AA595661, AA484892, AW084173, AJ251024, F01666, AW089625, AI355246, AI797998, AA526413, AA525807, AA019973, AA128511, AA602971, AI927275, AA199582, N90244, AA559241, AI002950, AA604601, AA640305, AI760835, AA367672, AA503298, AA397355, AL043719, AI973173, AA013168, AA313025, AW270768, AW272815, AI609972, AA515905, AW238016, AA112187, AI246796, AI935827, AA714011, AA228778, AI345157, F01532, AA513122, AW302903, AW275719, AW105463, AL048925, AI283938, AW238712, AI056177, AW419389, AI678468, AA420787, AW193493, AA657835, AW179316, AA837646, T48723, AA904275, AI926909, AI803809, AW020088, AA610784, AW023390, AI923052, AA079421, AA225392, AC003041, AL049830, AL031433, AC004797, AC005740, AC009516, Z83838, AC002119, AC005940, AC005920, AL023281, AC005261, AC012627, AC005821, AC005899, Z94056, AL035587, AL031432, AC004859, AC004019, AL034423, L05367, AC008124, AC005037, AL022336, AC004895, AC003098, AC003109, AC005822, AC005529, AP000066, AP000556, Z99570, AC020663, AC004408, AP000116, AB000882, AC005387, AL109627, AC007666, AL031390, AC006254, AC004623, AC004448, AC002347, AP000503, AF134726, AL031577, AC004686, AL049636, AC005486, AC004596, AC005971, AL022721, AL139054, AC002551, AC005523, AC005358, AC005527, AL121754, AL035684, AC004034, AC005913, AC006071, AP000049, AC007536, AC005902, AC006285, AC007216, AC005703, Z95114, U78027, U91326, AC006011, AC006449, AP000311, AC002059, AC005839, AP000512, AL049795, AL049766, AL049793, AC003956, AC005288, AL049709, Z98200, AC002511, AC004242, AL117694, L44140, AC005914, AL049692, AC003030, AF111169, AF111168, AL022311, AF045555, AC004526, AC005399, AC004167, AC004878, AC007227, AL035422, AC004796, AC006511, AC002091, AC005104, AF031078, AC004821, AC005081, AC005004, AL033392, AC006057, AC004150, AC005318, AC002492, AC005722, AF030876, U62293, AC004882, AC004253, U63721, AC005736, AC006111, AC007225, AL035659, AC007030, AC000052, AC005695, AL022313, AF109907, AC002045, AL031393, AC000026, AC007395, AF141309, AL031282, AL034351, AC004854, AL133245, AC006270, AL121655, Z83840, AC005015, AL049872, AL049643, AF003626, AJ246003, AC006360, AC018633, AL022328, AP001053, AC002115,

HCWFT33	1187	959471	1 - 258	15 - 272	AF196779, AL020997, AC002302, AC002314, Z98048, AC005251, AP000513, AC004383, AF196969, AL031591, AL050348, AC005619, AC003688, AC006001, AL050318, AC004884, AC004816, AC005082, AF207550, AC002312, AC006023, AC005291, AC005274, AL031280, AL022316, AC005216, U07563, AF114156, Z84469, AC004491, AC007358, AC002310, AC000070, AC000894, AC005520, AL022334, AC003101, AC006055, AL133448, AL133553, AC002984, AC004887, AB001523, AC007919, AC002468, AP000009, AL080243, AC006487, AC005089, AP000326, AC007151, AC002477, AC006948, AL049757, AL121603, AL021154, Z83826, AL132777, AC006084, AC003006, AC004967, AC006368, AL049869, AC008044, AC005519, AC003070, Z83846, AL031368, Z83822, AP000122, AP000169, AP000054, AL118497, AF018458, AC007263, AL022322, AC004805, AL109613, AC007066, AC002394, AC005257, AL035398, Z99716, and AL031003.
HCWFT44	1188	935855	1 - 338	15 - 352	
HCWFT77	1189	739571	1 - 259	15 - 273	A1922362, AA130574, and AC004492.
HCWFT84	1190	542236	1 - 396	15 - 410	
HCWFU03	1191	921944	1 - 307	15 - 321	AW205685, A1698601, AA884459, N23262, AA552480, and AA905404.
HCWFU07	1192	861902	1 - 107	15 - 121	AC006501.
HCWFU19	1193	577315	1 - 536	15 - 550	
HCWFU32	1194	716340	1 - 473	15 - 487	
HCWFU64	1195	577888	1 - 364	15 - 378	AA745185, A1216430, AP000553, and AC009516
HCWFU66	1196	853005	1 - 392	15 - 406	
HCWFU76	1197	576839	1 - 401	15 - 415	AA768179, AA368329, AA346867, AA348271, AW439810, A1278130, A1904944, T07285, AA558404, AW268090, AA229823, A1567391, AA228979, AW243945, AA279385, AA112924, N86484, F30586, AA297443, AA583579, AA078384, A1283938, A1421257, AA378489, T99020, AA564925, AA745297, A1273837, AA972523, AA372311, A1369076, R99613, N40907, AA581240, AA582746, AA559205, A1984168, AA367014, AW008184, F00458, M62257, AA424249, A1299442, AA449468, AA581185, A1016192, A1932871, T62078, AA229422, AA160427, AA484892, W26972, AA515172, AA385775, AA583568, AA372389, AA354695, AA838098, A1003391, N92697, AW194046, A1889426, AA523695, AA582350, A1859744, AA653713, C15362, AA356376, AW237905, AA831801, N77384, AA720582, A1915081, AW341955, AA573000, AA482792, AW328331, AA302978, AA728911, AA664248, D51809, AA610255, AA419225, AW341882, AA630854, AA502110, AA115865, AW272389, A1223968, AA634991, AW328330, AA488687, AA832016, AA661883, T40550, AA503307, AA354677, AW265688, AW151247, A1354333, AA584765, AA837771, A1146266, AA352521, AA838161, AW249720, T47138, R98409, A1859438, AA427808, AA481811, W02749, AL041895, AA515939, A1123488, F17537, AA669747, A1927275, AA810837, AA425924, AW26499B, AA678616, N52276, AA364988, A1537800, AA329535, A1187148, AC005538, AC004098, AC012066,

HCWFU83	1198	574864	1-515	15-529	AI133269, AC005031, U80017, AC007637, AC004526, AC004148, AF109907, U02051, AL109952, AL031587, AC004019, Z97630, AC004253, AC007738, AL024509, U62292, L34635, AC005955, AC005089, AL133163, AL133245, L05367, AC005480, AC000064, AL096791, AC005231, AL096766, AL024498, Z83826, AL049776, AC004821, AC003094, AC006537, AC006441, AC005919, AL049636, AC004913, AL031346, AC007551, Z94056, AC004970, AD000092, AC004856, AP000502, AC004131, AC005015, AC002350, AL035079, AL096712, AC007566, AC006263, S42652, Z84722, U63721, AL096703, AC007182, AC000025, AC005666, AC003007, Z98941, AC006276, AL050318, AC002369, M87890, Z96470, AC005611, AC002310, Z68873, AC005328, AL021579, AB022785, AC004517, L35532, AC005258, Z49236, AC007436, AL031311, Z85986, U95742, AL135744, AC007421, AL049832, AL034429, AC005837, Z15025, AC005632, D38522, AL008715, Z97053, AP000126, L78833, AC007686, AL049540, Z84474, AC002477, AP000054, AP000169, AP000122, AC005377, AJ236701, AB023049, AC005332, Z69917, AC007314, AL132987, AC005211, AC005826, AC006254, AC006126, Z84469, AC007435, AC006379, AC004973, AC002306, AC004851, AC004030, AC016027, Z82208, AC003029, AC005180, AC016830, AC003010, AC000075, AC004655, AC007860, AF196971, AL031230, AL022311, AP000512, Z98048, AF134726, AL121838, AC004882, AP000503, AC005071, AC005839, AC004686, AL049830, AC006132, AC007384, AC012627, AL133243, AP000253, Z81364, AC004663, Z83844, AL035072, AC007225, AC007216, AC005210, AC006388, AF047825, AC000946, AP000691, AC005681, Z85994, AL049712, AC005519, U16302, AL031281, AC006125, AC004542, AC004816, Z93017, U91326, AL035685, AC007226, AF001550, AL133312, AC004811, AC005306, AC004626, AC004802, AL031728, AC004841, AC000070, Z97054, AC003081, AF111169, AC006976, Z83840, AC004883, AP000008, AC004707, AC002045, AC005696, AL021707, AC005200, Z95114, AC006285, AC005763, AC005736, AL121655, AL049757, AC004685, AC006251, AF023268, AD000864, AL034421, AL031983, U62300, U62293, AC005280, AP000704, AP000498, Z93848, K01254, AC003688, AL008718, AC005971, AL031258, AL035658, X54486, AB026898, AL049794, AC004825, AC006480, AC009247, AC004662, AC007731, AC005527, AL109967, M17262, and AC004859, AC005500.
HCWFV16	1199	849953	1-381	15-395	T71420, H65742, R17043, R53388, N39910, AL031295, and AL049675.
HCWFV21	1200	849905	1-349	15-363	
HCWFV25	1201	733993	1-535	15-549	R92125, T98334, AI424340, AA632445, and AC004749.
HCWFV32	1202	960090	1-247	15-261	AF001550.
HCWFV34	1203	577896	1-456	15-470	AA488048, AW007822, AC005100, AF117829, AL022158, AC004585, Z95152, AL022310, AC004388, AL132668, AC005244, AC004673, AL080241, AC004075, AC002412, AC004478,

HCWFV37	1204	575715	1-408	15-422	AC000114, AC007680, AC004014, AC007655, AC006313, AC007115, Z80771, and AL035464.
HCWFV50	1205	723666	1-433	15-447	N64515.
HCWFV69	1206	527087	1-410	15-424	AC004007.
HCWFW51	1207	671807	1-493	15-507	AA911986, and AP001055.
HCWFX23	1208	675902	1-332	15-346	
HCWFX30	1209	825920	1-322	15-336	
HCWFX44	1210	703028	1-503	15-517	N51043.
HCWFZ30	1211	692719	1-310	15-324	AL119853, and Z69304.
HCWFZ56	1212	733414	1-294	15-308	
HCWGA27	1213	861968	1-325	15-339	AI880278, AW276156, AI983646, AA877596, AI887774, AI347477, AI673036, AI458241, and AL022237.
HCWGA32	1214	699272	1-331	15-345	
HCWGB61	1215	733105	1-487	15-501	L44329.
HCWGB64	1216	578734	1-158	15-172	
HCWGB78	1217	861843	1-380	15-394	
HCWGC02	1218	917348	1-321	15-335	
HCWGC50	1219	772358	1-399	15-413	
HCWGD20	1220	906973	1-373	15-387	AI636734, AA557982, AA715527, AA715344, AA284247, W02749, W63553, AA715284, AI923360, AA557136, AA742815, AI92929X, AI929825, AL120543, AL039930, T47138, AW157180, AI291419, AW403829, AA401921, AI571866, AA219349, AI368873, AC006141, AC004257, AC005317, AC005071, AL031123, L78810, AC004542, AC007216, AP000501, AC007052, AC006449, AC003665, AC005531, Z85987, AC007637, AL008726, AC007546, AF001548, AC007686, AC004821, AL031295, AC005529, AL135744, AC000353, AP000313, AC005911, S45332, Y10196, AC004825, AP000050, AF196779, AJ251973, U95740, AC005088, AC004797, AP000117, AF134726, AC006581, AC006211, AC005696, AP000557, AC006946, AC004638, AL050342, AC006130, AC005484, AC000025, Z84718, AC004890, U78027, AL078593, AC003070, AL033375, AC006360, AD000092, AL035422, AC007690, AL049874, AC009516, AL050327, AC005015, AC006251, U91326, U95742, AF045555, AC006241, Z99495, AC002310, AC006480, AC004531, AL031733, AP000350, AC005261, AC020663, Z98884, Z98941, AC006121, AC005081, AC006084, AP000302, AC004820, AC006160, AL109628, AP000558, AC005102, AC006487, AP000352, AC002416, AC004765, AC002425, AC005189, AP000114, AP000046, AL078477, AL035684, AC005920, AC007376, AC005740, AC002544, AC004876, AC010582, AL031680, AP000503, AC002477, AL133246, AC007041, AC005324, AC007880, U47924, AP000405, AL022240, AC005027, AC006539, AC004983, AC004832, AC005919, AL031311, AC004815, AC004448, AC003002, AC007738, AC007225.

HCWGD33	1221	849909	1 - 327	15 - 341	AL121655, AC004000, AC004927, AC004933, AC008044, and AC006080.
HCWGD66	1222	496411	1 - 264	15 - 278	
HCWGE12	1223	967067	1 - 364	15 - 378	
HCWGE22	1224	727967	1 - 328	15 - 342	AA330772, AW022897, R79496, AA188940, H12383, AL038971, AI339074, AA370455, AL031584, Z98941, Z97055, AC005015, AC004815, AC004584, AL022165, AC005952, AC004491, AC000134, AC005821, AJ003147, AC004876, AC004966, AC005102, AL031276, AC003690, AC007842, AC004552, AC006071, AC006285, AC005280, AC005300, U07563, AL035071, AC002045, AP000692, AL049757, AC002299, AC006953, AC005048, AC008044, AC005527, AP000513, AC004926, AC007151, AC016830, AB023049, AC004526, AL121578, AC005529, AC002470, AC006312, Z85986, AC017993, Z84469, AC002558, AC004638, AC005726, AL031279, AF111168, AC004967, AC004832, AL020997, U91326, AC007541, Z82208, AC004263, AJ229042, AC000025, D84394, AC016025, Z96074, AC005519, AC007041, AL034429, AC007308, Z95115, AC005899, AC002544, AL096702, AC002365, Z98946, AC004167, AC006251, AL035089, AL031311, AJ251973, AL035659, AC005011, AC004770, AC006121, AL132712, AC004945, AC007421, AF064861, AC006530, AL031291, AC006946, AC006211, U80017, AC000359, AP000346, AF128525, AP001054, AC000357, AL009181, AL035450, AL009182, AL133500, AL031228, AC005081, AJ010770, AF001552, AC008372, AL022722, AC006388, AC006023, Z97053, AC004228, AC002565, U52111, AC006120, AL035681, AC006450, AL049872, AL049636, AL034555, AL035415, Z99128, AL035587, AC006040, AC006115, AC002070, AL022238, AC006324, AC005940, AC016027, AC004687, AP000252, AP000211, AP000133, AP000167, AC004216, Z82201, AP000689, AL008726, AP000558, AC004887, AC005874, AF134471, Z93930, AC005993, AC003108, AC006006, AF038458, AC007676, AC002301, AC006012, Z82178, AC009247, AC006544, Z98304, AL021878, AC004953, AP000031, AL021546, Z83845, AC005180, AL049779, AC005800, AC005480, AP000694, AC002059, and AC004217.
HCWGE23	1225	853004	1 - 453	15 - 467	
HCWGE25	1226	657236	1 - 363	15 - 377	
HCWGE39	1227	705403	1 - 58	15 - 72	AI811654, and AI032916.
HCWGE47	1228	925105	1 - 429	15 - 443	AC004072.
HCWGE53	1229	728249	1 - 342	15 - 356	T47041, and AC010385.
HCWGE65	1230	720349	1 - 348	15 - 362	
HCWGE73	1231	757333	1 - 198	15 - 212	
HCWGE78	1232	527557	1 - 325	15 - 339	
HCWGE92	1233	792722	1 - 273	15 - 287	AL117411, AF109126, and X99338.
HCWGF06	1234	935492	1 - 398	15 - 412	

Clone	No.	ID	Range	Range 15	Accession Numbers
HCWGF71	1235	960089	1 - 436	15 - 450	AC008055.
HCWGF74	1236	529235	1 - 231	15 - 245	
HCWGF75	1237	682351	1 - 347	15 - 361	
HCWGF76	1238	752789	1 - 321	15 - 335	AA719214, and AA716020.
HCWGF91	1239	754244	1 - 141	15 - 155	
HCWGF92	1240	861865	1 - 293	15 - 307	AW166641, AI049676, AA774098, AI668904, AI336771, AW060227, AI634187, AI457313, AA837325, AI018726, AA318652, AL037777, AL044712, AI252726, AA525332, AI369076, W26972, AI241637, AL044177, AA484651, AA598605, AI243793, AI679045, AL120004, AA588353, AA487209, AA376358, AL039761, AI017733, AW270429, T53133, AW270351, AC002381, AP000959, AC004908, AP000070, AP001053, AL078881, U89335, U52111, U85195, AE000658, AC007221, Z73913, AL049828, AC007214, AC004617, Z95152, AP000168, AL031685, AC007934, AC004584, AC005829, AL049589, AF111167, AC005587, AL109837, AL035089, AC003950, L11910, AC004787, AL121757, AC000081, AP000501, AL022345, AL022163, Z83838, AC004859, Z81010, U78027, AC005921, AC005625, AC005822, AP000251, AC009405, AL049699, AJ011930, AC002091, AC003973, AC008101, AC005873, AP000030, AP000507, AL035071, AP000555, AC006115, AC005225, AB002353, AC004796, AC006515, AL034418, AC002565, Z84474, AL021397, AC006541, AC005391, AF165141, AC003002, AC005231, AP001054, AC002543, AC005920, AL022326, AB023049, AP000512, AL109613, AC009275, AC005666, AL049759, Z81370, AC004912, AL035422, AC005755, AP000503, AL023553, AF134726, AL031391, AL035587, AC002314, AC006277, AD000671, Z86063, AC003030, AL022320, AC004001, AL031282, AC004685, AC004466, AL009174, AC004876, Z97054, AC004812, AL096791, AL031427, Z98200, AC005184, AP000553, Z83844, and AC005089.
HCWGQ07	1241	849889	1 - 388	15 - 402	
HCWGQ39	1242	849891	1 - 575	15 - 589	
HCWGQ62	1243	916454	1 - 349	15 - 363	
HCWGQ71	1244	710828	1 - 371	15 - 385	N88113, N85682, N86592, AA092643, AA091872, and AA096089
HCWGQ80	1245	529242	1 - 319	15 - 333	
HCWGQ84	1246	853106	1 - 388	15 - 402	R51952, and AC005214.
HCWGR34	1247	923577	1 - 363	15 - 377	
HCWGR43	1248	734888	1 - 302	15 - 316	AA513238, AA526630, AI051037, AI243789, AI002810, AI051457, AA329659, AA064815, AA707879, F07155, AA362088, AJ027056, AI002207, W03818, AI581486, T91561, AA657835, AW188427, R22496, R63562, H03144, AA578358, AA328676, AA503407, AA149724, AA297006, AF053356, AC005409, AF001550, AC010205, AC004895, AL031003, AC004851, AC006211, AL078581, AL020997, Z83846, U91318, AC003684, AC007685, AC004821, AC004098, AC005914, AC004796, AC005484, AC005919, AL049869, AC005243, AL133371,

HCWGR47	1249	719518	1 - 251	15 - 265	AL031657, U85195, U07563, AP000514, AC006539, AC002295, AC006571, AC005082, AC004242, AL008729, AC005399, AL035695, AC005237, Z84483, AC008154, AC007566, AF002223, AP000511, AC005632, AL022238, Z98742, AC008372, AC007041, Z82215, AC008038, AC005562, AC006960, AC00085, AL035684, AP000512, AC005779, AC005516, AC004019, AF001548, AC004000, AF064861, AL022396, AC005180, AC002400, AL034451, AL133163, AC005035, AL049833, Z93783, AL022718, L78810, U91323, AC004605, AC006050, AF196779, Z83843, AC004217, Z85987, Z99774, AC004167, AL096701, AF106564, AL031662, AC005483, AC004963, AC003070, AP000045, AL132992, AL022312, AF165926, AL050318, AL035086, AC004139, AC007225, AC003007, U80017, AL040795, AL080243, U95743, AL008718, AL031311, AC009509, AL049780, AC005725, AC002301, AC004386, AC006241, AL050348, AC000353, AC009223, AC004890, AL096761, AC004996, AC006023, AF030453, AC005531, AL049871, Z94044, Z69917, AC007376, AC005088, AC006480, Z98950, U52112, AL031431, AF205588, AL034420, AC004878, AC007919, AC005037, Z82172, AL121653, AF111167, AC002504, AL117355, AC007226, AC002350, AL023284, AC007993, AL034449, AC007199, AL109939, AC005736, AB020859, AF088219, AC004216, AC000159, AL121754, AP000509, AC016027, AC007537, AC005722, AL035091, AC016830, AC007055, AC006531, AC005529, and AC006055.
HCWGR48	1250	690954	1 - 167	15 - 181	AC007684
					AL009177.
HCWGR69	1251	849946	1 - 422	15 - 436	T40338, AA657918, AW080134, F16127, AW265654, AA469451, AA984640, AA704643, AL041368, AL138242, AA491545, AA713767, F29989, AA649642, AI200051, AW023389, AA650434, H65428, AI355206, AA501809, AI061334, AA831388, AA525151, AW406659, AA847128, AA364224, F34795, AA601355, F23249, AA640979, AA156538, F33511, AW406936, AA491814, T63104, N27353, AA533725, AA513939, AA581903, AA649705, AA678436, AA634238, AA747472, AA714453, AI824562, AA482711, AA310868, AI924251, AA604869, AA654979, AA847753, AA525406, AI963720, AA364315, AA507824, AA601892, M77895, AW104748, AW236342, AA503258, AL043721, AA703707, AA441788, AA310879, AW250970, AI963095, AI303008, W07122, M62272, AA457771, AA318652, AI982651, AA569075, AA470985, AI284640, AW088058, AI471464, F28776, F35673, H64777, AW272758, AA206935, AA604897, AA713534, AI918421, AA235575, AA768905, AI251002, AA708352, AI610159, AI344844, AA749274, AA371567, AI471487, N31557, AA515224, AA767376, AA347531, AA644551, AI962050, F27027, AI287651, AA626678, AA702614, AA745560, AA302732, AA644538, AA831599, AI287528, AI792287, AA425922, AA668578, AI653905, AA1016689, AA513972, AW265294, AA523810, H22634, AA713762, AA100372, AA652057, AA603323, AI708009, AA713933, AI246796, AA469460, AA578017, AA613851, AI264743, AA573020, AA468022, AA640900, F23315, AA557879, AA369477, AI610920, AA683037, AI281697, AA143477, T49241, AW406447, AA632960, F36404, AA199660, F32808, AL119691,

HCWGR76	1252	778293	1 - 399	15 - 413	AW341900, AA551201, AA635067, AA601876, AA192695, AI270126, AA910125, N55273, AA535937, AA071144, AI471572, AA357987, AA557325, AI160117, AA747480, AA665021, AI523668, H96730, AI061296, AA071296, AA071271, AI917271, AI633007, F36273, AA526193, AA746726, AA931647, M37551, Z30994, U22376, U57007, Z30983, X54176, Z31005, Z98885, AF087913, AL049759, AC009263, AC009263, AF015839, AF015148, AC004887, M87919, M77848, AC007050, AL109839, U91326, X75335, AL121655, AC005787, AF015155, Z30979, AF192789, S77605, U14717, AL096701, S75337, AF015152, U02049, U14711, U14712, U14713, J03071, AL079295, AL109628, L44140, AP000556, AC005520, AL117258, AP000552, Z81369, M77849, AF015153, AL034401, AL078581, AF015160, U14708, Z83840, AC005740, M29322, AC020663, AC005280, AC005785, AP000117, AL022316, X67330, AP000553, AL133382, AC009516, AC006538, AC002544, AC002055, AC000951, I51997, AL031276, AC004890, AL009179, AL031229, AC003688, AL021937, AC002425, AL035535, U47924, AC007160, Z78887, AC003046, D26535, AC004463, S75201, AC005763, AL049697, AC005988, AL080248, AC000353, AC005412, AL035688, AC004263, AC006285, AC006312, AL135744, AL031732, AC004797, AF207550, AC006505, M89651, M87918, AF054569, AC006360, Z32772, AL049757, AC004859, AC007462, AC007731, AC007240, AP001045, AC006441, AC005500, Z98884, AP001052, AF111170, AC006241, AL020989, X60653, AL049829, AC006130, AC005516, AC016025, AC005102, AC004477, AP000557, AC006012, AF180475, AC005399, AC004139, AL078621, AJ011930, AP000272, AC006079, AL096774, X77859, AC005829, Z98050, Z84721, AC009946, AC007537, AC004531, AC005088, AC004224, AL035071, Z49236, AC007488, AC007360, AP000079, AC005527, AC007664, AC000004, AC002301, AL024495, AC006011, AC007382, AC006037, AL022313, AL049576, AC004645, AC002984, AC005921, AC010168, AC005105, Z86064, Z84480, AL049795, AL049569, AL132987, AC004775, AL035410, AC005370, AF015416, AC005355, AC004492, AC005257, AC006252, AF110465, AB023049, AC004808, U14719, AC003104, Z98052, Z75744, AC010582, AL035423, AC006317, AL034430, AC005920, AF024533, AC018767, AL034553, AL031255, AC005924, AC007064, AC007057, AC004050, AP000745, AC003109, AB031740, Z84474, Z97053, Z82244, AC005011, U34055, M77847, AL034379, AL008708, AC007676, AL021878, AC011604, AL049699, AL121658, AC005567, U34052, M64231, AF121781, and AL049539.
HCWGR88	1253	736056	1 - 202	15 - 216	N8S601, AA247827, N84855, H58760, N84048, N83993, N84718, U39066, AF039698, AF032922, and S78798.
HCWGT45	1254	913730	1 - 691	15 - 705	N53076, T90911, D25951, AA650097, and AI801737.
HCWGT49	1255	527085	1 - 406	15 - 420	
HCWGT66	1256	531374	1 - 448	15 - 462	
HCWGU11	1257	967064	1 - 650	15 - 664	AA913734, AI056453, and AW194191.
HCWGU49	1258	674752	1 - 227	15 - 241	AA947385, AA468583, and AC005214.

HCWGU57	1259	1 - 117	15 - 131	AI078214, H77522, and AI052167.
HCWGU86	1260	1 - 295	15 - 309	AC004590.
HCWGW10	1261	1 - 382	15 - 396	N56555, N88601, AA093861, AA247827, N84048, N63993, N84855, N87989, AF045432, AJ243486, U48696, AF039698, and AF039922
HCWGW12	1262	1 - 426	15 - 440	
HCWGW13	1263	1 - 395	15 - 409	
HCWGW32	1264	1 - 448	15 - 462	
HCWGW63	1265	1 - 57	15 - 71	Z69705, and AC004754.
HCWGW80	1266	1 - 153	15 - 167	W07329, AI638772, AI766112, AA947305, AI684857, AF086142, and AF086126.
HCWGW85	1267	1 - 265	15 - 279	
HCWGW86	1268	1 - 330	15 - 344	AA584167, AA747070, AI345157, AA580808, AA493695, R95139, AW075948, AA847499, AA468022, AW275510, AA501762, AW193265, AW438643, AW302903, AW249224, AA577959, AI873852, AL042753, AI873990, AA478355, AW149313, AI872020, AI247199, AA483771, AI754658, AI350211, AI687343, AW274349, AA662225, AI583283, AI696062, AA531079, AL048925, AI860013, AA808877, AA724333, AW303196, AI040342, AL038072, AA679532, AA224083, AA515909, AW303002, AI567076, N35602, AA507824, AI133297, AA568869, AA515334, AA847952, AI613280, AA961035, AA468456, AI270117, AW002350, AI471887, AA321168, AA490183, AA333638, AA428792, AA524821, AA369254, N29815, AW301350, AI305766, AI972203, AI584186, AW069769, AA912099, AI032493, AA664909, AA857486, AA683258, AI281881, AI284640, AA613345, AW264934, AA504877, AA588001, AA828749, AI801482, AA169263, AW023990, AW103758, AA634889, AA502860, AI608668, AW235497, AA483223, AA224525, AW276817, AA581903, AA661921, AI054343, AW327868, AI963720, AL120933, AL046205, AL041690, AW270709, AA584082, AL042853, AI643X84, AI865905, AI733755, AI933534, AA812281, AA483929, AA019312, AA577906, AA584581, AW419262, AL042547, AW083364, AA167055, AA576336, AA581123, AA610491, AI434706, AA702729, AI744995, AA682912, AA639326, AI654525, AW274346, AI866160, AI431303, AA579075, AI345654, AA719292, AA658362, AA788901, AW248803, AI445674, AA523837, AA720702, AI816141, AI002510, AL120927, AI358431, AL118991, C16397, AA846876, AA220943, AA613397, AL046409, AA192740, AI133164, AA178953, T06648, AA834792, AI110844, AA715255, T74382, AA715267, AA848134, AI120269, AI824706, AI698447, AI085719, AA478297, AL040130, AI093030, AA533762, AA584667, AI640841, R35746, AA380354, AW276710, AA745406, AA578997, AI470646, AA650376, AA581076, AA601270, AI633390, AW275971, AW301809, AI580250, AI241821, T51911, AA503015, AW118539, R02632, AA126777, AA774780, AA326372, AA533333, AI254913, H71429, AI708009, AA631507, AW168618, AI636730, AA480784, AF034184, AL119713, AW050498, Z84482, AC005028, AC002549, AC006155, AC004620, AL022329, AC005375, AL117356, AL021408, AC005768.

AC005217, AC004453, Z83843, AC002463, AP000049, AP000311, AC011422, Z84490,
AL022722, AC004386, AC005378, AC002365, AC003101, AB020873, AL080278, AC019014,
AL035541, AC006975, AC004825, AC006270, AC004991, AL049869, AL031012, AC005007,
AC005040, AC005829, AC008040, AC004381, AC004796, AC006287, Z69724, AF172277,
AC012085, AL080285, AL049647, AL023280, AC006360, AL008634, AC007514, AC006487,
AC003670, AC002480, AL034430, AL031575, AC005697, AC005668, AC007023, AC005703,
AL031774, Z85987, AC005046, AC006971, Z98200, AL050343, AC005598, AL049653, Z73358,
AC002395, AC002554, Z94721, AL022400, Z81365, AL109865, AC007676, AF002223,
AP000248, AL023580, AF200465, AL035086, AL035634, AL033531, Z83840, AC005166,
AC004949, AC002418, AC006160, AJ229042, AC005411, AC005920, AC005922, AL035091,
AL080239, AL109985, AL031316, AP000228, Z84478, AL133382, AC005184, AL031595,
AC016831, AL049792, AL110292, AP000140, Z92545, AB003151, Z86062, AC004979,
AP006688, AP001058, AF201337, AF001549, AP000210, AP000132, AC005081, AC006478,
AL132718, AC009802, AC005880, AC005183, AC003002, AP000088, AC004837, AL034350,
AL035697, AL031276, AL109758, AC006165, AC004259, AC004765, Z84486, Z83820,
AC004600, AC000113, AC006501, AL031427, AC007401, AL033403, AL049539, AC007014,
AC005589, AC005389, AF003627, AC005245, AC005537, AC005737, AC005230, AP000067,
AL136168, AC007899, AB023051, AC004948, AL020993, AL049776, AF130343, AL109963,
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AL109753, AC007199, AL035070, Z99495, AC005048, AL035072, AC003108, Z84488, U82828,
AF007544, AC004606, AC005477, AP000512, AC006548, Z94277, AL136504, AL022100,
AF015262, AL121595, AC015853, AC007425, AC007425, AC004701, AJ229043, AJ006996, AC008179,
AL031589, AC007463, AP000459, AC010200, AC007919, AC008078, AC005686, AC005070,
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AC004804, AP000494, AC009946, AC007656, AC006959, AF045555, AC005887, AP000111,
AC006079, AC004593, AC009516, AC009479, AP000351, AC005534, AC008417, AC007051,
AF053356, AC005997, AL096678, AP000104, AC005509, AL022399, U91324, AL022163,
AC011604, AL109802, AC006441, AC006285, Z93023, AC002302, AP000043, and AC009363.

	1269	958780	1 - 451	15 - 465

AL042667, AL042670, AA642809, AL048060, AW272815, AI433952, AI889995, AI753904,
AA555232, AA525818, AA584360, AI310670, AI568376, AW104161, AI697235, AA533381,
AA603359, AA669238, AA676592, AW192419, AI733856, AI049643, AI697239, AI697242,
AI791659, AL041375, AA640305, AA298365, AA179364, AI270280, AA630476, AA324108,
AI927275, AI436433, AI523540, AI434653, AA284247, AA714011, AW151247, AI310787,
AI279417, AW238341, H86725, AI355246, AJ801563, AI475297, N54538, AI380617, AI690379,
AI755227, AI049845, AI431442, AJ859368, AL036282, AI473671, AA515727, AI814750,

HCWGW95	1269	958780	1 - 451	15 - 465
HCWGX05	1270	902512	1 - 1076	15 - 1090

AI349130, AW089625, AA747234, AA085410, AW409626, AA218851, N40092, AW148964, AI719298, AI679902, AI925423, AI679394, AI678812, AA720582, AI075753, AA814503, AA490602, AA101265, N67313, AA703818, AA493947, AI360558, R99532, AA807684, AI025857, AI285493, AA419230, R51520, AA314404, AA233462, AW409621, AI278440, AI277373, AI808499, N66775, AA768079, AI800426, AI923052, AL039436, AI144125, AI567676, AW328446, AI869797, AA086042, AF118808, U52112, Z98048, AC006064, Z93023, AL096701, AC007707, AC007934, AL031680, AF124523, AC005484, U91321, AC006121, AC006328, AL050321, AF038458, AL008882, AC005099, AL022721, AC004815, L78833, AC007226, AC002037, AB000882, AC006208, AC005089, AL021939, AC005089, AL031311, AC005412, AF109907, AC009247, AC004962, AL031123, AL021939, AC004662, AF184110, AC005358, Z95116, AL034420, AP000513, AC007546, AC003072, AC006059, AC005971, AP000506, AC007277, AL139054, AL109801, AC008134, AF047825, AC000039, AC003663, AP000512, AL049569, AL049776, AL021391, AF053356, AC004522, AC000039, AC005520, AL035681, AF146367, AC004805, Z85986, AC006344, AC002425, Z95114, AC006538, AC005257, AC003043, AC004967, AC004770, AP000348, AL109798, AC006538, AC005257, AL049843, AC004777, AC006946, AL121756, AB023051, AP000049, AC005004, AL136504, AP000441, AC005094, AC007055, AL022476, AD000092, AP000085, AC004475, AC006441, AL133163, AC005193, AC004448, AC009464, AC007656, AP000104, Z83838, AC006449, AC007637, Z83847, AP000501, AC004655, AL022326, AC003071, AC007052, AC004858, AF129756, AC007041, AD000833, Z98946, AL049733, AC005399, AC002394, Z98200, AC005619, AL022337, AC005274, AC003973, AC005288, AL031904, AL035071, AC005566, AF003626, AC004009, AC005274, AL035464, AL023575, AL022327, AC002565, AC005594, AC000075, AC000084, AL031289, AC005663, U80017, U82828, AL049844, AC005841, AC004382, AL050312, AC005664, AP000157, AP000345, AC006046, AL031427, AC006600, AC004382, Z93244, Z81364, AC008126, AC002401, AL031228, AL049795, AP000011, Z93244, AL031432, AC005067, AC010205, AC004129, AC005368, AC007308, AL049780, AC003982, AC003108, Z32206, AC003042, AP000346, AC003665, Z84469, AC004491, AC002126, AC006213, AL035588, U92032, AC005332, AL135960, AJ131016, AB000877, AC003950, AC009248, Z96074, AL035420, AP000247, AL050347, AC007537, AL034417, AC005006, AC002470, Z81370, AC005736, AL009181, AF205588, AL096775, AC005206, AC007030, Z86090, AC004825, AC003690, AL031599, AP000556, AB023049, AC002090, AL035683, AC006165, AC005180, AC005694, L05167, AC007225, L47234, Z93241, AC005880, AC006965, AC003956, AL031120, AL078476, AC005666, AC010200, AP000152, Z93017, AL008583, AC005667, AP000014, AC002996, AL117325, AC006080, AL132800, AC002316, AL021155, AC004953, AL021707, AC004922, AC005837, AC005512, AP000126, AP000204, AL132826, and AL050348.

HCWGX23	1271	720486	1 - 312	15 - 326	
HCWGX41	1272	849887	1 - 343	15 - 357	AC004033, AC007731, and AC005500.
HCWGX58	1273	920693	1 - 743	15 - 757	C18732, AA634806, AA729161, and AA729860.
HCWGX68	1274	733413	1 - 115	15 - 129	
HCWGX82	1275	924102	1 - 274	15 - 288	Z95115, AC004491, AC005089, AL049843, and AC004973.
HCWGX94	1276	793197	1 - 170	15 - 184	
HCWGY02	1277	920113	1 - 348	15 - 362	
HCWGY03	1278	924208	1 - 251	15 - 265	AI183881, AW014092, AI085895, and AC007245.
HCWGY12	1279	970693	1 - 324	15 - 338	
HCWGY20	1280	669717	1 - 311	15 - 325	
HCWGY33	1281	702441	1 - 476	15 - 490	AA618172, AA632695, AL031681, AC004699, AC002565, AL133353, AL033403, AC004383, AC005562, and AC004128.
HCWGY43	1282	660568	1 - 228	15 - 242	AA716190, AA515438, AA614340, AA618172, AA632695, AI168274, AA760672, AA174138, AA135377, AA348966, T68597, AI735455, D44625, AA206028, AA747322, H17731, AL042425, AA809631, R98945, AW449193, AA226172, AA226173, H59461, AA468491, AA468952, T96546, AI734154, AI732760, AI124595, AA377927, AI240831, AI890794, R54247, R18870, R22698, AA551582, AC006511, AC004129, AF047825, AL031685, AC011331, AD000092, AC005086, AC002070, AL023096, AL031297, AC005495, AC005844, AC004984, AL034379, Z82173, AL034553, AL020997, AL031680, AC007686, AC008134, AL049653, AC005899, AC002044, AP001053, AP000349, AC005082, AC002994, AL031178, AL021937, AL031681, AC007790, AL049575, AC004552, AC007277, AC006501, AP001068, AJ011930, AF121781, AC005609, AP000350, AL135879, AL121790, AC005280, AC005189, AL133238, AD000813, Z84466, AF001549, AC002132, AL133396, AL049844, AL035461, AL035070, AC002112, AC005620, AC006966, AL031670, AC004616, AL035703, AC009178, AL121652, AF196969, AC004079, AC001226, AF111169, AL049830, AC005003, AC005262, AB020863, Z82203, AC004098, AC004491, AP001059, AC004525, AC004682, AC009509, AP000502, AF134726, AF196972, AL133485, Z92542, AF002223, AC006160, AC004143, AF067845, and Z98304.
HCWGY64	1283	670896	1 - 233	15 - 247	AW020871.
HCWGY67	1284	861886	1 - 320	15 - 334	
HCWGY76	1285	496402	1 - 322	15 - 336	
HCWGY85	1286	917132	1 - 338	15 - 352	
HCWGY86	1287	711312	1 - 459	15 - 473	
HCWGY90	1288	960159	1 - 250	15 - 264	
HCWHA03	1289	924189	1 - 136	15 - 150	AC006468.
HCWHA09	1290	968224	1 - 157	15 - 171	AC003689.
HCWHA10	1291	961278	1 - 376	15 - 390	AA551798, H91611, AI93363S, AA593537, AA229422, T05118, AA578832, AI801649.

					AA470496, T05684, AL046519, T56727, AA581525, N71619, T94072, AA583728, AA584527, AW151247, AA129272, AL041019, AL041018, AA229823, N91711, AA225100, F23338, F09355, AI355103, F11575, AA228979, AA572921, F34506, AI801563, R77715, AA504951, AA503142, R56641, AI560085, AI189682, F02248, H86579, AI114733, AI133552, N63897, AI445934, AI206841, AL047493, AA502110, AA225028, AA502532, AI340858, H62923, AA706160, AC002470, AC004757, Z30987, U47924, AL022326, AC005962, AF126403, AF109907, AC000381, AC000061, AC005332, AC004895, U52112, AC004672, AF016898, AL031447, AC006512, AL135744, AC005486, AC005516, AC007308, AC007263, Z82215, AC003962, AL078621, AC005846, Z83819, AL049830, AC007686, AP000045, AC006576, AC005231, AC007690, AC004477, AC006480, AC003108, AC005412, AF108083, AP000694, AC003030, AC004559, AC004797, AL022238, AP000510, U80017, AC005535, AL031295, AC005937, AL022336, AL035462, AF110325, AC010077, Z85994, AC001231, Z84487, AC005695, AB023048, AC004765, AP000695, AC005399, U95742, AL050341, AC005796, AC007216, AC004617, AC005839, AL049779, AP000501, L34635, AC005180, Z99943, AP000511, AL133500, AC004674, AL049553, Z83822, AL096702, AC005261, AC005790, AC005071, AC005335, AC007192, AC007041, AC005306, AC003963, AC006001, AC004531, AC006960, AC005934, Z98749, AL034420, AL035422, AC005622, AL035405, AC012384, AC004049, AC004752, AL117694, AL034420, AL035422, AC005622, AL035405, AC012384, AC004049, AC004752, AC005004, AP000113, AL034429, U85199, AC006262, AC005091, AL121603, AC004491, AC003002, AL009172, AL133246, U85195, AL121877, AF111168, AL031680, AC007676, AL109623, AC007551, AC022517, AL023553, AP000688, AL096801, AL109627, AP001068, AL136504, M74900, AL122020, AC005088, AC002549, AL139054, AC005288, AC007556, AE006658, AL049760, AP001067, AL096712, AC006441, AC006443, AP000133, AE006659, AC000084, AP000692, AC004522, AC007790, AC005663, AC006236, L78810, AL035658, AC008078, Z84469, AF001548, AC007934, AC004647, Z97632, AL121754, AC004216, AL078638, AC005102, AL022316, Z98742, AL049835, AL078581, AF067844, AJ011930, AC005696, Z69707, AL121655, AC004785, AC006323, Z84467, AC007639, AL022322, AL035661, AL049761, AL031291, AC004976, AC006011, Z96074, AL121757, AC009721, D88268, AC004998, AC005920, AL080243, AC004832, AP000116, AL121652, AL035524, AC004235, AC006461, AC006461, AC005870, AC005215, AC005886, Z98884, Z93023, AL034421, AC004084, AC003104, AL031767, AC005763, Z93017, AC006130, AC005378, AC005365, AC005913, AC005828, U82668, AP000049, AL008639, AP000689, AC007540, AC007421, U82828, AC005358, and AC006088.
					AA192173, AA837098, AA923355, AA483125, AA461421, AA828696, T63954, AA834805, AA583978, W07032, AA494090, AI547286, N87410, AA378683, N43757, AA381665, C19058, AA450199, T28550, AI921649, AI376100, AA826144, AW074059, AA551509, AI356904,
				15 - 193	
				15 - 366	
			1 - 179		
			1 - 352		
		731770			
		733424			
	1292				
	1293				
HCWHA55					
HCWHA56					

Clone	SEQ ID				Accession Numbers
HCWHA84	1294	733421	1 - 306	15 - 320	AI564284, AA091395, AA344959, AA338642, AI079667, AA776936, AA776921, N26276, AI922654, C17838, AI820998, T25706, AI471374, AI254798, AI956124, AA009855, AW238325, AI056566, AA598545, N72524, AA658235, AA465321, AA659856, AI758582, N53565, AL042213, AA338193, AA804828, AA360260, AW277171, AA748826, AA093453, AA372881, F19258, AW021886, AA419263, AA559341, W35195, T63416, AA491284, AA66590R, AA365492, AAS07282, R99777, AA611138, AA631638, AA679009, AW029625, AA768905, AA078255, AI345121, AA767376, AA482743, AA482757, AI570138, AA364488, AW103006, AA331231, AA670158, AC004106, AB016903, U89336, AC004923, AC005095, AC005387, AC005746, AP000346, AL035458, AC006461, AC003112, AF205588, AL022336, AC007308, AB020858, AC007298, AC001066, AC005257, AL050308, L49046, AC002310, AC007649, AC003041, AL031684, AC004638, L78810, AC005358, U55184, AC006127, AC006976, AF196969, AC007312, AC006039, D32063, AC005516, AP001040, AL023574, AL049757, AC004000, M62424, AR025392, AF061786, AC005253, AC006077, AP000497, AC005971; AP000553, AC006888, AL121915, AF109907, AC004592, Z98950, AP000354, AL022343, U92023, AC006121, AC004167, AL136295, AC005866, AL132712, AL034429, AC003065, AC005033, Z68273, AC004983, AC000392, AC005480, AC004858, AC006441, AC004893, AC005180, AC005599, AC006445, AL031427, Z98941, AC004125, AL024473, AL121580, AC007845, AP000345, AL049830, AC008040, AC001231, AC007687, AL009031, Z99755, AC002326, AF017257, AC016026, AC012083, Z84466, AC006557, AL031178, AL035460, AC006312, AL031985, AC005362, AF156495, AC000387, AC006116, AL133245, AC007314, AL121603, AL049795, L78833, AC004527, AC003664, AC004542, AC006120, U00481, AC005482, AC004712, AL035405, AC005405, AP000859, AP000134, AP000212, AC004802, U80017, AC006531, AC000353, AC005023, AC007030, AF196971, L81893, AL132767, AC006479, AP000135, AP000270, AL035413, AC005800, AF139813, AC002057, AC006543, AL031722, AL031846, AP000356, AF165926, AB003151, Z93020, AP000031, U95740, AF044083, AC006511, AL031782, AC002470, AC005926, AC006530, AC007319, U66061, AC005207, AC006211, AL031680, AL121655, AL034548, AC005041, AC006544, AC005274, AC004263, AL008629, AC005277, AC005225, AC011331, Z69705, AP000359, AC016027, AP000310, AL117328, AC016830, AL021154, AL117694, Z98051, AC007686, AC005913, AL049758, Z95400, U67817, AC004999, AC004159, AC005015, AL033376, AP000032, AC008067, AC005839, AL049712, AC004848, AC006241, AC005082, M77848, AL035684, AC006449, AL022326, AP000692, AL050332, AL133448, AC003006, AL022476, AC004862, AC002492, AC004857, M77849, AC006509, AP000252, and AL050341.
HCWHB12	1295	970688	1 - 366	15 - 380	
HCWHB32	1296	966508	1 - 411	15 - 425	AL122003.

HCWHB65	1297	711437	1 - 122	15 - 136	
HCWHB68	1298	573571	1 - 317	15 - 331	
HCWHC01	1299	849886	1 - 320	15 - 334	AW117951, N64437, AA345333, N66776, AA508509, AA669416, AA724230, AI432270, AW439480, AI358343, AW193546, AI570822, AL120502, AW243706, AI252085, R44592, Z83840, U85195, AE000658, AL109628, AI011930, AC006449, AC005089, AL022163, AL022326, AL022238, L44140, AC000353, AC006374, AL020997, AL021707, AF196969, AF117829, AC004491, AC002381, AC002400, AC005046, AC007666, AC004671, AL049830, AL031577, AC000085, AC005565, AC002299, AL135744, AC005332, AC006211, AL121655, AL049874, AC004000, AL023807, AC005288, AC005826, AC004003, AL096701, AC007243, AC006312, AC006270, AL033525, AF042090, AC006379, AC006501, AL031737, AC020663, AP000509, U95740, AC006116, AC006285, AC004941, AF109907, AC005529, AC004895, AJ239321, AP000514, AJ246003, AC006530, AC007676, AC005212, AC004678, AP000031, AL023799, AL022281, AL121658, AL031120, U52112, AC005231, AL008718, AL034421, AC003663, AC006023, AL121652, AL035458, AC008126, AC005057, AC007277, AC004859, AL022720, AC000025, AL109847, AL133312, AL049745, AC005694, AB020868, AC002472, AC005527, AD001527, U47924, AL031668, AC002351, and AL049759.
HCWHC26	1300	950719	1 - 420	15 - 434	AI446464, AA348929, AA525824, AA503454, AI832909, AA192470, AI608626, AI436677, F19716, AI625647, AI589461, AA669251, AA045894, AI559251, N43757, C05755, AA451612, C06327, F10924, AA190911, AA446544, AA848172, AI472222, AI889781, U51696, AA338486, AL038703, AA652940, H64560, AA668639, AA744075, AA085124, AI064864, AA528519, AA074130, R78962, AI301713, AA359958, AI499134, AA243452, AW067900, R79263, AI692808, AI690698, F28576, AA347368, AI121505, AI357698, H60143, AA533450, AA669416, AA181823, W05405, AW302013, N92446, AL119984, AA954936, AI568678, AA593060, AI921649, AI969436, AI969086, AA303845, AA182038, AA648064, AA630352, N95554, AI679132, AI376100, AI569086, AA303845, AA147197, AW117750, H85382, AA834820, T11542, AI798473, AA492252, AA480784, AA528516, AA886584, AA629992, AW074059, AA443138, AI356904, AI564284, C06119, T56719, AC005288, U18396, M57427, AI008715, AC007225, AC008115, AP000503, AL132777, AC006285, AL121658, AC016025, AC004226, AC007240, AC004895, AF134726, AC005879, AP000552, AL133445, AC133445, AL080243, AC005231, AL049869, U57004, AF067844, AF172277, AL008582, AC002350, AL133448, AP000347, AL122020, Z83840, AL049872, AL049636, AF088219, AC003043, AC002350, AC003043, AC005730, AC003969, AC005909, AC005412, AL117356, AF165926, AC005048, AL050312, AC004853, AC002550, AJ239318, AP000042, AC003966, AL050341, AC005527, X06123, AL109802, AF090944, AC005488, AC000353, AC007676, AC005632, AC005529, AC004019, AC006449, AL021579, AL035460, AL109653, AC000025, AL121578, AC007546, AJ006996, L49046, AP000496, AC006359, AL021368, AP000497, Z69918, AC004813, AC003013, AF015723, AC002316, AF114156, AC006211, AL009174, AC002543, X61109, AP001138, Z99716, Z97876,

HCWHC35	1301	706508	1 - 349	15 - 363	AL031053, U95740, U91323, AL132987, AL034548, AC005332, AC004848, AL096791, AC005783, AL020995, AC004884, AC004534, AC007242, AC005726, AC006538, AC002133, AC005324, AC005414, AC005144, AL031229, AC000379, AL031733, AC005057, Z99774, AL034375, Z93910, AP000431, AC004035, AC005362, AP000704, AJ246003, AC005821, AC005694, U62317, AC002312, AL078581, L76568, AC005793, AC005370, AC020663, AC005086, Z15025, AL078584, AL009181, AL035608, AC004230, AC007324, AC005808, AC005944, AL034343, AC007731, AC002558, AC006241, AP000355, Z95114, AP000555, AC005500, AL049776, U95742, AF124523, AF196779, AC005019, AL031846, AC007666, AL109799, U02050, L78833, AC005866, AB023052, Z98950, AC008079, AC005745, AP000289, AF196969, AP000556, Y18000, Z98752, AC004933, AC005523, AC005353, AC007216, AC005914, AC005624, Z93023, AL049829, AL031985, AC000052, AC006138, AC004522, AC005519, AL132992, AC004883, AL121825, AP000110, AC004814, AC004152, D16583, AC004076, AC004098, AL109627, AC002310, AC005913, AF053356, AC005399, AP000356, AC004695, AC006596, AC006126, Z99754, AC006162, AC004382, AC005209, AC007129, AF107885, AF019664, AC005069, Z93241, AC002526, Z84718, AC008101, AF032456, AC005668, AL078604, AL022311, AC002470, AL096701, AC004485, X77531, AC004466, AC004988, AC005725, AC004675, M13254, AL031602, AC004254, AC002395, AC004678, Z84476, S78429, Z98200, and AC005772.
HCWHC37	1302	706509	1 - 300	15 - 314	AC004983.
HCWHC50	1303	591202	1 - 537	15 - 551	AL035414
HCWHC59	1304	964852	1 - 252	15 - 266	A125214, H78331, N63856, and AA702824.
HCWHD07	1305	953384	1 - 438	15 - 452	
HCWHD17	1306	663865	1 - 428	15 - 442	AA019537, D58283, D80195, D80391, D51423, D59619, D80210, D51799, D80240, D80253, D80227, D80196, D80188, T03269, D80219, D59927, D80043, D80212, D81030, D80038, D80193, D80366, D80022, D59889, D80166, D80378, D59859, D59275, D80269, C14429, C14014, D80045, C75259, D80168, D80134, D59502, F13647, D80949, C14227, D57483, D80241, D59610, D81111, D58253, D51079, AW178775, AW377671, AW352158, D51097, AW360844, AW178971, AW177714, AW352171, AW179007, AW178754, AW179024, AW179020, AW177456, AW377676, AW179012, AW352174, D80290, AI557774, T11051, AW178986, AA033512, AA285331, H67858, AI525907, A62300, A62298, X67155, A67220, A84916, A25909, D26022, D34614, AJ132110, A78862, D89785, AR025207, Y17188, D88547, X68127, I82448, A85396, AR066482, AB010386, AB012117, X93549, A85477, U87250, A86792, 119525, A44171, AF135125, AR064240, Z32749, S69292, I18371, X89963, A41601, S78798, and AR033111.
HCWHD23	1307	934917	1 - 279	15 - 293	AA432091, AC005899, AL050308, AC007371, AL031005, AC005089, AC008055, AC004922, AC004148, AC003982, AC005412, AC002365, and AL031311.
HCWHD68	1308	690359	1 - 394	15 - 408	AC005591

HCWHF62	1309	582472	1 - 429	
HCWHF85	1310	746745	1 - 305	H66222, R16430, and T99465.
				H95605, T05617, AI630894, AA587113, AA456942, AI918575, AL048479, AW316599, AI866377, R01574, AA223907, AI633386, AA830070, AI567391, AA021354, F30586, AA054170, AI653776, AA515129, AI336398, AW337805, AI096714, AI962030, N64807, H97510, F35689, AI905408, AW238212, AA018617, AA838192, AI921765, AA214227, AW082104, AL096701, AC005280, AC016027, AC016830, AF047825, Z84469, AF036405, AL031651, AL035458, AC004150, AL031447, AP000962, AC000024, D87011, AF124523, AC004821, AD000684, AC006121, AC002394, AC004253, AC005482, AL109798, AL132774, AC006130, Z68165, AL049766, AC002425, AL132987, Z97056, AC003003, AL035400, AL031681, AL034420, AC006512, Z82193, AL033527, AC004477, AC007308, AL049713, AC005881, AC004884, AC002551, AL031577, AP000503, AC005736, AC007970, AF165926, AC007225, AF084941, AL031659, AC005874, AF134471, AF134726, AC005011, AC006441, AC006552, AC007536, AR036572, U91328, Z85987, AC004605, AC004259, Y11107, AL008707, AC006946, AC004600, AL031685, AL024498, AC007191, AF196972, AC006241, AC006023, AF084861, AC004554, AC006536, AC000052, AL031680, AC003982, AC002470, AC002300, AC005410, AL049777, AC004019, Z85986, AF111170, AC004938, Z94801, AL023575, AC005089, AL022336, AC005048, AC005837, U91323, AL096712, AC004031, AL049540, AL049765, AC000120, Z98051, AL049760, AL031431, AC004616, AC006312, U95090, AC004386, AC002314, AL008718, AC005368, Z75890, AC004643, AL110292, AF109907, AC003043, AC007381, Z98200, AL031596, AC005037, AF048729, AF001550, AC007731, AC005726, AC005500, AC004858, AC003108, AF118808, AC004491, AF015416, AC006487, AC005225, AP000555, AC005856, AC006115, AC007052, AP000365, AL109758, AC005091, AC002430, AC000003, AC005920, AP000303, AC004851, AC004878, L17395, AI011930, AC006509, Z73417, AC006328, and AC020663.
HCWHJ15	1311	968379	1 - 129	AC009248.
HCWHJ25	1312	686712	1 - 354	AA488432, AA829225, AA458804, AA363415, AA364315, AI744739, AL041706, AI053644, AA362917, AA528725, AA720702, F28122, H57509, AA654968, AA146625, F33121, AA630362, AA988870, AI051230, AI056964, R99168, R77905, AI460390, AC007387, U95090, AL109654, AL135783, S41998, AC006536, AC007057, AL049872, AP000556, AC011592, AC006441, AP000552, Z85986, AF109907, AP000275, AC002350, AP000105, AP000037, AC006130, AC005694, AC006057, AC004858, AL117338, AC005527, AC004659, AL109984, AC000085, AC006121, AC008134, AL021394, AL031005, AL110502, AC004531, AL035458, L44140, AC005512, AP000692, AC000052, AC007537, AC007363, AC006285, AC006502, AL034451, AC004019, AL135879, AL121790, AC005529, AC002289, AC006277, AP000307, AL022329, AL096702, AC002288, AL133448, AL031587, AC002448, AP000115, AL022316, AL020993, AC007011, AL049797, AC007536, AL023320, AL121653, AL021878, AC005324, AL133382, AF042090, AC001226, AC005330, AL096701, AL021453, AC008064, AL022726, AC006255, AL050323,

HCWHJ48	1313	721816	1 - 340	15 - 354	AL049843, AC006512, AL050318, AF061779, AL022238, and AP000046.
					AC008101, AC008079, AC016027, and AC016830.
HCWHJ53	1314	693313	1 - 411	15 - 425	AA344959, AA831388, AA526193, AW408063, AA483043, AA365571, AA565700, AA302952, AA301813, AI249688, W07122, T41134, AA327572, H12972, AA063426, AA744025, AA516225, AA341120, AI963720, AI355206, R66407, AW019964, AI754105, AA702206, AI198376, AA227162, H59856, AA720746, AI038304, AA610491, AA384039, AA847029, AA737150, AI754567, AI569100, AW192599, AA368329, AI061334, AI755214, AL044000, AI708005, AI061313, AI928790, AA365520, AI569510, AI244356, AI080307, AI678392, AI624698, AA594725, AI281431, AW131356, AA804993, AA828704, AI912322, AA579184, AA747889, N54179, AA298387, H65439, AI886365, AA526755, AW265654, AI921317, N55476, D58782, AA364315, AA757743, AI860020, AA838479, T57604, H72666, C05099, AA838477, AI889794, AA633175, AL120343, AI049795, AC005399, AC004983, AL121653, AL021808, AC005225, Z69921, AC004797, AL132987, AC006459, AP000214, U02057, AL035071, AL049776, AL033392, AF165926, AC007216, AF111168, AC004910, AC005104, AL022320, AB003151, AC005252, AF109907, AC005089, D83737, AL121657, AL023803, AC004460, AL008630, AC004890, AC003101, AC002425, AC002377, AC004470, AL031846, AL031296, AC005231, AC005874, AF134471, AC007738, AC000353, AP000255, AC006312, AF129756, AC020663, AP000354, AC007227, AL049766, AC004400, AF001549, AP000105, AP000037, AP000031, AC004854, AF196969, AC005071, AC007371, AL022158, AC004972, AC006538, AC006047, AC002523, M87914, AC005081, AP000135, U89337, Z93244, AC005772, AC006441, AC005899, M87918, AL022238, AP000692, AC004496, AC003108, Z98050, L78833, AF026069, AP000555, AB017602, AC011362, AC006077, AL031729, Z99128, AP000689, AL031255, AL080243, AF019413, U57007, AL023807, AC004019, AC006111, AL050318, AC005520, AC004463, AC006285, AC002400, AL078639, AC007285, AC007225, AC004259, AC007546, AP000513, AC004812, AC004600, AL034420, AC016025, AF196779, Z97055, AP000509, AP000251, AL034429, Z99496, AC009496, AC006271, AL031005, AC005796, AB015355, AL109759, AC004605, AC004929, AF045555, AC004859, AL049761, AC004841, AC004821, AC006953, AC007263, AL035415, AC007537, AC000052, AL049709, AC005393, AC005839, AC002553, U63630, AC007899, AB023049, AF053356, AC004770, Z93017, AP000141, AP000089, AC004408, AC007308, U07563, AC004066, AL035072, AL121603, AL022325, AC006160, AC005588, AC004585, AC004477, AL034417, AC002126, AL035681, AL121655, AC005768, AC002470, AL035587, AL035448, Z92540, AL023574, AC002997, U73638, AC004973, Z83826, AC002115, AP000512, AC006468, AC002404, AC003070, U66060, AP000211, AP000133, AP000030, U02058, U66061, AC007160, AC007533, AC002542, AL109758, Z82176, AL008721, AL049760, AC007064, D26067, AL078476, AL121825, AC007688, AC007632, AP000009, AC006138, AC004802, AP000695, L78810, AC006059, AP000688, AL031428, AC004195, AC007666, AF207550, U91326, AP000350, AC005940, AC005940, AC005747

| HCWHJ55 | 1315 | 1-719 | 15-733 | |

Column (1-719):

AC006515, AF015155, Z98048, AP000556, AF067844, AC005668, AC004211, AP000275, AL035659, AL035405, AC005146, AC005370, AL034401, AC006013, AC002985, AC004383, AL021977, AL049713, AL136504, AC005207, AL133485, AC005539, AC004858, AC004771, AC004918, AL049636, and AC005837.

Column (15-733):

AI076616, AL045053, N48230, AL138265, AA130901, AI053790, AL042853, AI355206, AA581903, AA722372, AI963720, AA846876, AL119691, AA584201, AI817516, AW440545, AI374809, AW102955, AA468022, AI951863, AW265393, AL046409, AA877817, AI457397, AI284640, AA126035, AL046205, AW088846, AI732865, AW274349, AA507824, AI042420, AL040921, AW008212, AI305547, AI708009, AA468131, AI357901, AA703887, AA720702, AI281881, AI270117, F28204, AI312309, AA812139, H08791, AA584195, AA521399, AA623002, AA521323, AI345157, AA515829, AW163293, AI334443, AW021583, AA610491, AA501809, AW169151, AA837677, AW327868, AI956124, AA493471, AI871722, AA491284, AI204304, AI801482, AA490183, AA480772, AW238278, AA311319, AA587604, AI696962, AA515549, AL037683, AA610271, AA126051, AI254316, N94311, AW406447, AI431303, AI133164, AA349366, AW303196, AW265385, AW407578, AA657918, AI445582, AA503473, AL041690, AA478355, AA599480, AL038072, AL038705, AW301350, AW304584, AW270382, AW19265, AW103758, AI368256, AW439558, AI345518, AI471481, AI368745, AL044940, AW062682, AA514854, AL046457, AW028392, AW131249, AI744188, AW020340, AA491814, AI503475, AL138455, AI860020, AA846760, AA703820, N92756, AI133262, AI865905, AI207401, AI799642, AI267818, AI625244, AA569471, AI307608, AI969436, AI249997, AI576336, AW419262, M77974, AI282832, AI370074, AW270270, AA719292, AW410400, AA572713, AA579366, AL119984, AI559705, AA533333, AA908687, AA533036, AA523837, AI580652, AI376100, AI921649, AI890348, AA483223, AI471543, AI053606, AI745325, AI640409, AA631507, AW276817, AI613280, AA515909, N53150, AI608771, AA613203, AI754955, AA531372, AA665021, AI370094, AA349854, T41259, AI564284, AW023672, AA828704, AA502104, AI537955, AI345654, AI538433, AI568678, AA488395, AL048626, AI251436, AW302903, AW302909, AA584082, AI017415, AI538852, AA583955, AA513850, AL119649, AW276827, AL120483, AI370977, AA584145, AA079462, AI061334, AA679514, AA630362, AW072923, AA470969, AA947360, AW302013, AW088202, AA522942, AA714453, AA683258, AI792287, AA781975, AW069769, AA558656, N76673, AI912322, AC000353, AC005332, AC005295, AC007226, AC005529, AC003007, AC005057, AC002476, AF045555, AC002565, AC007225, AL109802, AC007191, AC002045, U63721, AC005696, AL049776, AP000112, AC005072, AP000045, AP000113, AC007666, AC005412, AC002470, AL121655, U78027, AC007151, AP000151, AF038458, Z99716, AL049712, AL022165, AC004167, Z98044, AC006449, AC004967, U95742, AL031311, AC005089, AC007685, AF006111, AF006752, AL132712, AC005911, U47924, Z97054, AC005015, AL096701, AC096130,

HCWHJ75	1316	786019	1 - 398	15 - 412

The table cell under the final columns contains extensive lists of sequence accession numbers, including:

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HCWHJ91	1317	674157	1-400	15-414	AC002476, AL121603, U18390, Z22650, S56773, AC004940, AL049562, AL049845, U95742, AL034420, AL031432, AC005722, AC002452, AP001053, AC004987, X54179, AC000118, AC006285, AC006512, AC002994, AC005007, AC005031, Z86090, AC005245, AC018769, AL008726, AC004857, AP000238, AL021397, Z98046, AP000459, AC000159, L35531, AL049745, AC007216, U50871, AL031224, AC004000, AP000143, Z97181, AP000692, AC010722, AC005699, U91326, AL031224, AC004941, AC006001, AC006251, AC006486, AF031078, AP000134, AP000212, AP000030, AL049544, AL008709, Z74696, AC017099, AC002041, AC005563, and AL021977.
HCWHL11	1318	967057	1-403	15-417	AC005605, AC004908, and AC005604.
HCWHL36	1319	465250	1-481	15-495	W72636, and AA737484.
HCWHL42	1320	959894	1-422	15-436	AI280574, AI554725, AI436330, AA477517, AAS33054, AA213590, AW150387, AA659832, AL040374, T78072, AA663074, AI049931, AC008127, AC013417, AC005726, AC005488, AP000008, AP000704, AC006486, AL022329, AL133396, AF031078, AC006014, AF030876, U73167, U90094, AL008635, AC005924, AL031255, AL035697, AL109758, AC004477, AC007687, Z97053, AC004797, AL031597, AC003665, AC005873, Z92546, Z83844, AL031284, AC002301, AC007899, AL121654, AL133448, AC000035, AC005383, AC003962, AC000044, AL035079, AC005237, AC000034, AC004448, AP000353, AC002425, AC006143, Z82190, AL135783, Z84572, AC008055, AF205588, AC002352, AC004813, AF179633, AL022326, and AC005529.
HCWHL73	1321	960097	1-539	15-553	AA219247.
HCWHL89	1322	754087	1-127	15-141	
HCWHN05	1323	849885	1-363	15-377	
HCWHN28	1324	529654	1-318	15-332	
HCWHO38	1325	573533	1-413	15-427	
HCWHO45	1326	717807	1-436	15-450	
HCWHO78	1327	960180	1-337	15-351	
HCWHO93	1328	924109	1-381	15-395	AL121852.
HCWHP06	1329	935483	1-288	15-302	AA729468, R10107, W89152, AA383903, W88647, AI910620, AI241829, AA348884, AI473501, AI538106, N77986, W67486, AW198103, H54411, AA320684, N73349, W67485, AI352089, H67251, R99079, AI362519, AA054355, AA583390, AI654404, AA831624, H71523, T83076, R09897, AI149238, AA767864, T95920, AI032114, AI061577, AA045892, AA491889, R34073, AI884375, AI267544, AA515929, W87421, AA297443, AA077228, AI472070, AI479070, AI287788, AA831638, AI824558, AA655007, H12182, AI004220, AA100325, AI275725, AA651647, AW338697, F07225, AI523875, H75392, T89763, AI808173, AI125633, AA582060, AA745570, AA311509, AA669734, AI559178, AA547979, AW051628, AA176125, AA363250.

HCWHP25	1330	881285	1 - 638	15 - 652	AA348602, W96277, AA020873, AA193241, AA702222, AA701593, AA451720, AI912614, AW247389, AW131101, H65880, AI034370, AA404276, AA744496, R02526, AI889452, AC006430, U07562, AC003010, AF030453, Z83822, AF196970, AC006463, AC006117, AC002126, AC006071, AC005600, Z83840, AC006312, AC005544, Z95116, AC005081, AL021155, AC004197, AL035659, AP000692, AC005688, AC004143, AB003151, AC006277, AC006474, AC005768, AC006213, AL109758, AL021878, AC005355, AC004408, AC002470, AL031587, AC002565, AL096791, Z93017, AP000695, AC005095, AL117354, AC006137, AL031983, AL121658, AC007308, AF190631, AC004196, AC004560, AC005183, Z93023, AL023553, AC013417, AC007656, AL135783, AC005015, AF111169, AC022517, AP000696, AC004821, AL122023, AC005932, Z68162, Z73900, AB015355, AF015355, AC004587, AC005102, AC004890, AC006987, Z98304, AC005911, AC008039, AC005291, U96409, U91321, U62293, U63721, AC002477, AP000689, AL078477, AC005730, AF127034, AL121653, AC004671, AL049760, AC006039, AF129756, AL031729, AC004832, AL096701, AD001527, AL035683, AC005529, AP000247, AB016243, AC005057, AL049709, AC005067, AL023807, AL109952, AL049872, AC005821, AC005367, AF045555, AC005519, AL031311, AC003003, AC002350, AF064477, AP000130, AP000208, AC003695, AP000688, AC007993, K03556, M15365, AL022328, AC000003, AL035457, AL133382, Z46773, AC007327, AC004491, AC004534, AC004854, AP000503, AP000099, AP000704, AP000338, Z98950, AC002349, AL137100, AC004967, AC004991, AC005288, AC012384, AC005023, AL135745, AC005356, AF070718, AP000556, AP000557, AP000216, AF009251, AC003104, AL031296, AC002542, AC004876, AC004217, AC006077, AC002097, AL022728, AF072711, and AC005782.
HCWHP40	1331	577691	1 - 382	15 - 396	AA203553, AA004349, AA678315, AA507179, R08030, R08080, and AW366361.
HCWHP44	1332	705392	1 - 114	15 - 128	AA702353.
HCWHP70	1333	711476	1 - 300	15 - 314	AC007199.
HCWHP74	1334	598510	1 - 423	15 - 437	AI350663, AI016289, AL037105, R59942, AA019396, AP000017, and AP000158.
HCWHP84	1335	849900	1 - 441	15 - 455	
HCWHQ03	1336	924187	1 - 347	15 - 361	AL110456, and AA326002.
HCWHQ31	1337	574945	1 - 416	15 - 430	
HCWHQ82	1338	677186	1 - 439	15 - 453	H98124.
HCWHR01	1339	916526	1 - 422	15 - 436	
HCWHR09	1340	542336	1 - 374	15 - 388	AC005752.
HCWHR59	1341	739293	1 - 572	15 - 586	AW207505.
HCWHR77	1342	729850	1 - 331	15 - 345	
HCWHR81	1343	935419	1 - 359	15 - 373	

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HCWHS13	1344	657230	1 - 256	15 - 270	

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HCWHS28	1345	675051	1 - 309	15 - 323	AB023056, AL031120, AC004750, L29292, AC004915, AC004741, AC004408, AP000230, AP000144, AC004677, AF126403, AF015163, AC006972, AL031427, AC003101, AL049642, AL021878, AC007320, AC004941, AF165926, AL096771, AL023877, AC003001, AF131217, Z68328, AC004066, AC004027, AP000050, X67277, AC002302, AP000359, AC004808, Z84719, U47924, AF109076, AC004785, AC003088, AC007285, AC005619, AL109984, Z74696, AC005154, AF015167, Z92540, AL034549, AB019438, AF015171, AP000566, AL031653, AF109907, AC000392, Z82203, AL009177, AL132987, A9168?, AC004662, AC005207, AL031733, AL049633, AP000958, AL121694, AC002492, AC009731, AL121652, AF029308, AC005156, AP000352, AC006518, AC004168, AC005944, AF015170, AL049777, AC005593, AC007317, AL022163, AF045555, AC004837, AC005081, AL135746, AC005694, AF067844, AC004593, AC005144, AC002462, Z98941, AC005399, AC007687, AC004019, AF030876, Z97196, U14701, U14695, U14705, AL031905, AL031121, AC002456, Z73986, AC007319, AC005194, AC004542, AC007684, U14691, U14699, U14685, U14686, U14690, U14710, AL023281, AL050305, AC009263, Y18000, AP000966, AP000695, AC006374, AL133355, AP000555, AC006312, AC005599, AL035417, AC004884, AC004712, AB020868, AU22395, AC002350, AC005041, AC006480, AP000350, AC000062, AP000356, Z95113, AL033381, AF015162, AC007228, Z68881, AC005703, AC004228, AL049589, AL035427, AC005046, AC005043, AP000014, AC004760, U12583, AC003015, Z84470, AC005251, AC005412, AC007917, AL008706, AC005722, AC007114, AC005484, AC003998, AC006512, and AL033525.
HCWHS77	1346	861875	1 - 337	15 - 351	AC004854.
HCWHT50	1347	527542	1 - 475	15 - 489	AC004542, AL049694, AC006112, AL121694, and Z84474.
HCWHT56	1348	849079	1 - 353	15 - 367	AB033063, and AR065869.
HCWHT59	1349	924105	1 - 320	15 - 334	
HCWHU22	1350	849878	1 - 330	15 - 344	
HCWHU30	1351	974485	1 - 392	15 - 406	N88601, N84855, AA095359, H58760, AA096046, N89520, N83168, AA247964, N83992, AA247827, N83991, N88782, N84048, AA093224, AA096066, AA095641, N84830, N84718, N86694, N87989, AA471338, N55698, N84712, N83993, N88518, N84829, N88496, N87898, AF102850, AF039698, AR066487, AF103726, S78798, U48696, AF045432, U39066, AF032922, and AJ243486.
HCWHU47	1352	720340	1 - 306	15 - 320	A1075000, AL049869, AL109623, AC005680, AC004685, AC005233, AC004014, AC000097, AC006547, AC005187, AC007021, and AL035665.
HCWHUS2	1353	726054	1 - 163	15 - 177	
HCWHUS4	1354	727314	1 - 131	15 - 145	
HCWHUS8	1355	736052	1 - 309	15 - 323	
HCWHVI1	1356	964996	1 - 254	15 - 268	AW243834, AJ014798, AJ332671, AI590042, and AI679747.

HCWHV18	1357	466511	1 - 329	15 - 343	
HCWHV28	1358	686710	1 - 522	15 - 536	T80701, and AL034551.
HCWHV33	1359	702437	1 - 243	15 - 257	
HCWHV41	1360	960157	1 - 331	15 - 345	R86114, AI383589, R56101, AI801563, AI800151, AI866422, AI547110, AA338474, AI754257, AI580480, AI744817, AL044701, AA862218, AI553670, AA586474, R26871, AI797998, AA633804, AW265468, AI002786, N52274, AI446424, AA493808, AI057560, AI445699, AI631209, AW021674, R22196, AW082556, AI702049, AW148821, AW410844, AI022329, AC005037, AL034343, AL049776, AC005914, AC002470, AC005666, AC002369, AC005874, AF134471, AL021939, AL109865, AL034420, AL031287, AC006130, AC007051, AC007919, AC005537, AL109628, AL078638, AC009241, AC006013, AL109179, AC005776, Z95114, AC004139, AL034371, Z97181, Z85987, AC005747, AC007358, AC002310, AL034351, AC005562, AC012085, AL009181, AC006966, AC007376, AC004996, AC006237, AC006006, AF111169, AC006539, Z75887, Z94802, AC007541, AL133163, AL132641, AL021918, AC004859, AL008710, AC006966, AC004812, AP000402, Z83822, AC006014, AL121756, AF031078, AC005701, AL121652, D87675, AL035425, AL035461, AL121603, AF030876, AL031767, AL035249, U78027, AC002352, AL009172, AP001054, AL135744, AC005503, AC000372, AL035422, AJ003147, AC004675, AC005763, AC005361, Z99570, AC002477, AC004525, AC003042, AC006511, AL031584, AL021808, AF088219, AC005921, AC004099, AC007533, AC002395, Z69890, AC004686, AL049839, AC005602, AC000088, AC003965, AC005488, AC000071, AC004517, AC004858, AC005082, AC002559, AC004079, AP000501, Z82901, AC006455, AC005969, AL132992, AF165926, AC000405, AC004854, AL109963, AL034423, AL031575, AL050306, AC022476, AC005004, AC002429, AP000289, Z99714, Z98950, AC004900, AP000042, AP000110, AL020997, AL080243, AP000142, AL022328, AC003109, AL049636, Z93241, AC012627, AF109907, AL049759, AL022302, AC007666, AC002544, AC006977, AF190465, AL031311, AC005759, AC004223, M97911, AL139054, AC006468, AC002476, AC004913, AC005221, AC005225, AC004815, AC004924, AL049569, AL049713, AP000347, AL022576, AC004857, AL035587, AP000694, AC020663, AC004483, AC005067, AC009516, Z97183, AC000052, AL031985, AB021048, AC005233, AC007686, AP000346, AC006023, AF047825, AL021407, AC006948, AL079303, AC002094, AL117352, AC002542, AF197228, AC004887, AC005695, AC007537, AC005746, AC005291, U85195, AC005015, AF111167, AC010722, AC004797, U91326, AC004148, AC005355, and AC004453.
HCWHV61	1361	849983	1 - 410	15 - 424	
HCWHV64	1362	770049	1 - 407	15 - 421	AA059296.
HCWHV66	1363	923527	1 - 505	15 - 519	
HCWHV71	1364	917274	1 - 489	15 - 503	
HCWHV94	1365	953379	1 - 360	15 - 374	

HCWHW32	1366	861905	1 - 546	15 - 560	AA629679, AF111168, AF207550, AP000501, and AF111167.
HCWHW38	1367	722213	1 - 286	15 - 300	
HCWHW83	1368	841937	1 - 558	15 - 572	AW023111, AA533054, AL048002, AI281818, H71678, AW150387, AW151247, AA069729, AI791659, AA515728, AW237905, H69523, AA706495, AI742168, AA315361, AA772906, H29914, AI446259, AI192440, AW245354, AA984920, AA601728, AA584756, AA284247, AW104163, AL040374, AW265688, AA837035, AI310464, AI821931, AP000210, AP000132, AP000248, AC003962, AC010170, AL049589, AP000030, AL133246, U91321, AC004966, AC004938, AL035400, AC005921, AC007308, AL031447, AP000503, AC006515, AL080317, AC000353, AL096791, U95090, AF134726, AL035071, AL035405, AC007052, AC009516, AL021546, AC006965, AI003147, AC005046, AF047825, Z83826, AL008730, AC007546, AC006581, AC004797, AB000882, AC005046, AF047825, Z83826, AL008730, AC007546, AC006581, AF001548, AC004764, AC006468, AF129756, AC004890, AP000512, AC005231, AC004605, AP000692, AC002310, AC007690, AL031427, AC006480, AL031668, AF001550, AF109907, AL022322, AP000557, AL022171, AC004881, AL117694, AP000038, AC002404, AC005086, AL024498, AC004156, AL035089, AC004882, AC003108, Z83308, AC005529, U52112, AC008040, AC006455, AL031428, Z85987, AP000350, AF064861, Z98946, U50871, Z82189, AL035681, Z82215, AC005527, AC008055, AL008729, AL022318, AC016025, AC005288, AC005666, AP000311, AC020663, AL109627, AC002477, AC005722, AC003038, AC007057, AL049872, AL096766, AP000558, AC006130, AL133243, AC005907, AC005513, AC005914, AC005015, U47924, AC004686, AL031255, AC004000, AL049775, AC004228, AC004253, AF117829, AC006023, Z82201, AC005736, AC006571, X55448, AL024507, AC006060, AF155238, AL049843, AC006449, AC004525, AL049780, AC004796, AC004656, AC007450, AD000812, AP000049, AL049694, AP000553, AC006262, AP000251, AC004143, Y10196, AC005971, AC005777, AL023575, AL132642, AP000113, AP000045, AL021707, AL050305, AC006441, AC005180, AC007172, AL035683, AL021808, AP000212, AP000134, AC002375, AC004601, L44140, AC004585, AC004832, AC007376, AL021807, AC002126, AC005684, AP000355, AL035079, AC004491, AC007999, AL034548, AC004887, AL034420, AF139813, AC005220, AP000208, AC006121, AL096701, AC006111, AC002301, U52111, AC006208, AC004131, AL021155, AP000247, AC004662, AC007536, AC006317, AL031588, AC005839, AC007537, AC004883, AC004263, AL049869, AC005070, AL022313, AL035086, Z97876, Z97353, AC007055, AC005516, AC005412, AL035420, AC002045, AP000359, Z95114, U95740, AC005229, Z83838, Z85986, AC005740, AC003042, AC005632, AC007292, AC007226, AC006271, AL035684, AL031311, AC005484, U91326, AC004125, AL022476, AL031663, Z93241, AC005874, AF134471, AL031133, AL049636, AC005899, AC007541, AC007845, AB026898, AL035697, AC007242, and AP000688.
HCWHX08	1369	959456	1 - 439	15 - 453	AA605123, AI963720, AI251436, F18638, AA482711, AI061334, AI352078, AI344844, AA493219, AI355206, AI962050, AA843450, AI921649, N43757, AA829106, AI624698,

AA489775, C06327, AA828704, AA581903, AW023672, AA502103, AA665330, AI860020, AA226305, N54894, F30933, AI017415, AA503015, AL138265, AI376100, AL042853, AW242109, AW303196, AW274349, AI053623, AI956124, AA661948, C05755, AA621704, AW301350, AA468022, AI004894, AI564284, AA348929, AA338486, AI284640, AI043719, AI453383, AA310158, AI567076, AW074059, AA369477, AI356904, AI305766, AI431303, AI151261, AI732120, AI061296, AA483771, AI547286, AW192265, H13757, AA826303, AA714453, AW247819, AI619997, AI053489, AA542991, AW080134, AI890228, AA810318, AA525824, AW021747, N25303, AW276817, AL037554, AA252763, AA302963, F25867, T90692, AA649642, AI434311, AI061143, H78195, AA132833, AA603445, AA069118, AW193432, AI688846, AW102849, U57007, AF015160, AF015153, A39972, AF015155, AF165926, Z30979, AF015167, AF015148, AC005081, AL023879, AF000940, AC009247, AC006350, AC007216, AC000081, AC004887, AP000248, AC006057, AF068862, U12580, AC007735, AC005944, AL121658, AC006077, AC004647, AC004150, U18396, AC006547, AC004895, AC004797, AF015166, AI246003, AC002378, AP000553, AC002425, AC004678, AC002544, AF015170, AL080243, AC006538, AC006019, AF196779, AF015158, AC010206, AB023049, U18395, AC002115, AC004812, AC006312, AL031846, U73634, AC006571, AC004668, X55926, U1839X, AC006040, L35531, AL121655, AL022721, AC005004, AD001527, AC011311, AF069508, AC006060, L35531, AL021546, Z69921, AC016025, AL133245, AC004903, AF017257, U57009, U91326, AF024533, AF114156, AC005231, U95742, AC006449, AL132992, U47924, AP001052, AC005037, AC006111, AC006254, AC003104, U57005, AL135744, AC005280, AL121603, AC020663, U85195, AC009516, AL022326, AF109907, U67234, AF015162, AL050321, AL023494, AC002301, AL034549, AC005412, AC006241, AC006486, AC007546, AL022329, AL023553, U18394, AL133246, AP000517, U12582, AL049757, AF088219, AC005212, AL035659, AE000658, AL031685, AL109627, AL035587, X54180, U18391, X55925, X54176, AC002310, AC003041, AC007676, AL031650, AC006285, AC004771, AL031281, AC006251, AC002369, AC006088, AL049776, Z95114, AC007536, AL022320, Z74739, AF045555, AP000359, AC005520, AD000092, AC007666, AC006511, AC004612, AC004972, AC005041, AC005696, AL034420, M89651, AC016831, AC002543, AC008040, AL022302, Z93241, AC004033, AF049895, AF015171, AC006480, AC004448, AC008984, AC006600, AL035422, AC007114, Z83840, AP000512, AP000698, AB001523, Z82190, AL139054, U18392, AC005940, AC005736, AC005821, Z97630, AC007014, AC007066, AL031594, AC002072, AC004019, AB023054, AC005821, AF134726, AC006042, AC006132, AC004263, AF107885, AP000513, AP001040, AC006512, AL021528, AC005618, AC003962, AC005015, AP000555, AC004230, AC005154, Z49235, Z98050, AC005600, AC005500, AC007243, Z98950, AC002470, AC004673, U78027, AC005544, Z98050, AC007421, AC003110, AC005722, U80017, AF038458, X54181, X54178, D84394, AC006539, AC007421, AC003110, AC005722, U80017, AF038458, X54181, X54178, AL031577, U18393, AL096701, AC009509, AC006948, AC006252, Y10196, AC005911,

HCWHX09	1370	625596	1 - 339	15 - 353	AC005375, AL031720, AC002091, AL035448, AC004638, AC003101, L35668, Z86090, AC016026, AL022323, AP000557, AL031255, AC002073, AC004890, AC005612, AC005488, and AC007055.
HCWHX72	1371	849884	1 - 351	15 - 365	T59825.
HCWHX91	1372	723178	1 - 286	15 - 300	
HCWHX95	1373	736004	1 - 260	15 - 274	
HCWHZ18	1374	666452	1 - 329	15 - 343	AI268099, and AI702282.
HCWHZ51	1375	725682	1 - 317	15 - 331	
HCWHZ59	1376	739294	1 - 321	15 - 335	AI525565, AL039783, and AA758552.
HCWHZ83	1377	781186	1 - 128	15 - 142	
HCWHZ89	1378	668670	1 - 144	15 - 158	
HCWKA13	1379	494088	1 - 569	15 - 583	
HCWKA21	1380	670897	1 - 254	15 - 268	AJ526203, AI541570, V00116, AF162506, AF162504, AF162502, AF162503, AF162505, AF162501, and AF162500.
HCWKA28	1381	466763	1 - 407	15 - 421	AA484648, AA503002, T61555, AP000256, AP000098, U36475, AP000155, AP000014, U91326, AL031659, AC002544, and AC007546.
HCWKA79	1382	574911	1 - 505	15 - 519	AC002040.
HCWKA96	1383	963621	1 - 342	15 - 356	AW183906, AI457975, and AA782016.
HCWKB04	1384	676904	1 - 428	15 - 442	AI299828, N51706, AA936483, R36572, R24933, AI299043, F05240, AI567908, H92474, N51794, AA806500, AA878245, AA482890, AA845639, and AF131763.
HCWKB10	1385	964570	1 - 396	15 - 410	AC004139.
HCWKC83	1386	496385	1 - 138	15 - 152	
HCWKD34	1387	706520	1 - 362	15 - 376	
HCWKF08	1388	959388	1 - 290	15 - 304	
HCWKF28	1389	686655	1 - 327	15 - 341	AI732327, AW327673, AI872229, AI754257, AI521019, AI002950, AA132029, AW419201, AI890297, AW338376, AA171400, AW157128, AA218684, AA557945, AI828721, AI576680, AA493546, AI826857, AW243817, AA661583, AI434103, AA584360, AA425283, AI571094, AL039117, AA084320, N26159, AI270280, AA600127, AA570243, AI754926, T34066, N99245, AW085751, W45215, AA557508, AA629668, AA167656, AA807704, T10218, AA601376, AA489390, AI348780, AI520984, AW029626, AI744890, AA430214, AA493245, AA610245, AW020612, AI568262, AI567676, AI732720, AA152398, AA640305, AI889177, AI925588, AI888050, AW129188, AA455202, AI570067, AI275989, AW162762, AA569220, AA535558, R61887, AI734158, AI343986, AI821605, AA287823, R33588, AI609972, AA369465, AA834891, AI620666, AI125143, AI300608, R54095, AW008217, AA340581, AI433952, AW105729, H05066, AA342029, AJ086603, AI734193, AA315052, D29424, AA524604.

HCWKF29	1390	779862	1 - 193	15 - 207	
HCWKG10	1391	964577	1 - 369	15 - 383	
HCWKH08	1392	959381	1 - 452	15 - 466	AL079894, F31575, AA758244, AL04003N, AA665475, AA772873, AJ049955, AA775205, AA846046, AA704346, AA553513, AA775973, AI933703, AI418232, AI978713, T60316, AI003391, AA828775, T05617, F30586, AI469468, AA587113, AI627917, AA932787, AA719523, AA077886, AA340534, R51882, AA503019, R92248, AA320060, AA558505, C18083, AI453321,

AA969776, AC005516, AL050129, AL050338, AP000116, AC006141, AP000036, AP000099, AL109854, M87914, U73630, AC006511, AC005041, AC002316, Z49154, AL080250, AL135744, AC005531, AC000090, Z98051, L47222, Z97876, AC004098, Z69705, AC004491, AP000954, AP000088, AF207550, AP000115, AL132987, AC004943, AC004673, AP000308, AB001523, AC004754, AL035460, AL031864, AC005015, AC008044, U91327, U71148, AC005412, AC004792, AC005358, AP000048, AL133353, AP000113, AP000045, AC005740, AL022238, AL022149, AC004552, AL109952, AL023803, AC005776, AF064859, AC005180, AF124523, AC004675, AF196779, AL096703, AC007386, AF088219, AC005228, AF134726, AC005102, U91128, AF191071, AC004409, AJ251973, AP000250, AL031588, AL031602, AL096791, AF191071, AL022326, AC004019, AP000030, AC009516, AC010205, AP000354, AC002350, Z98941, AL031311, AP000141, AL139054, AC004000, L47225, AC005519, AC007686, AC004802, AC006013, Z82190, AP000251, AC003982, AR036572, AL020993, AL049694, AL031133, AC004448, AC004967, AC008009, AL031291, AP000557, AC002465, AC005323, AC022165, AC000353, Z83308, AC005921, AC006157, AL033527, AC007401, AP000348, AL031003, AL096776, AC005325, U18270, AC003106, AC002470, Z93017, L78810, AF064858, AL117330, AL011667, AL031680, AP000692, X04981, AC005355, AL022721, AC005670, AC002563, AC003029, U95742, AC005484, AC005837, AC004148, AC004985, M87909, AL035086, AP000133, AP000211, AJ009610, X56997, AC009248, AL024507, AC006050, AL109627, AP001060, AC006162, AC005369, AC002477, AC005908, AC005911, D87675, AC005086, AC005913, AD000812, AC006014, AC007216, AP000466, AC016831, U62317, AP000563, X71874, AL020997, AL109985, AB000931, AC002551, AC005695, AC005856, AC001228, AL008582, AL049646, AC005546, AC006139, AC006323, AC005512, AC003072, AC009247, AC004585, Z98752, AC020663, AC006236, AC005859, Z93241, AC004611, AC006312, AC003108, AC005730, AL096712, AC005253, AC004526, AP001054, AC005257, AL035423, AL050341, Z98750, D16517, AC005377, AL078477, AC006315, AC004655, AC006487, AC006449, AC006121, Z93848, AC003013, AF106656, AC005581, AC000094, U78027, AJ003147, Z93783, AC012627, AC004686, AC006441, AC004263, AC004887, AP000263, L05367, AL121653, AP000359, AL008731, AC002314, AC004999, Z95704, AC004816, AC005768, AC005759, AL034548, AC007676, AC004833, AC002404, AL109984, AC004890, AC004973, AP000280, AC005562, AC003110, AC004125, Z99716, AL035658, and AL031255.

HCWKH16	1393	661898	1-369	15-383	AA687561, R92658, T41164, AA128863, AA830615, AA758275, H52638, AI800345, AI798521, AA653713, AA614139, AI285493, AI921765, AA601390, AL138252, T41132, Z99128, AL031685, AL078639, AC005049, AC006344, AC005921, AC002299, AC005838, AC007129, AC006141, AC002430, AC005823, AL096791, AC005520, AC008040, Z83851, AC006396, AF124523, AL031289, AL022398, Z83844, AC005067, AF017104, AC016831, AC005764, AL135959, AL020993, AP000065, Z82172, AL035658, AC006254, AC007842, AL096699, AL021331, AL049539, AJ006997, AC004692, AL034449, AC002352, AC002470, AF112484, AF042834, Z83334, X87373, AF045099, AL035398, U82668, AP000008, AC007880, AP000704, Z82214, AC002402, AL133216, AC000353, AC005274, AC005881, AP000310, Z98272, AC005202, AL031728, AP000116, AC002425, AL031589, AP001068, AC004953, AC002544, AJ011930, AF031075, AC003051, AC002511, AP000250, Z99754, AC004652, AC005787, AP000030, AP000211, AC004585, AC004895, AC005822, AL132642, AC004129, AC006930, AL121603, Z49237, Z97195, AC004050, AL022396, AL031587, AC003666, AC004664, AC003991, Z97196, AL109984, AC004966, AL121653, AC005736, AC009028, AC004887, AC007240, AL049569, AL096768, AP000032, AC004263, AL021707, Z95115, AF001550, AF001549, AF103887, AC008372, AC005332, AP000509, AC003009, AC005971, AL133162, Z84487, AF030876, U62292, AC007766, AC005944, U62292, U63721, AC005057, AL023653, AC004638, L78810, AL117352, AC020663, AL136504, AL133355, AC000130, AC004647, AL031258, AL008726, AL035608, AL031282, AL050307, AC000026, AL035460, AC004967, AC005913, AL009178, AL022721, AC002059, AP000344, and Z99716.
HCWKH25	1394	678086	1-295	15-309	
HCWKH36	1395	924191	1-287	15-301	
HCWKJ31	1396	678375	1-64	15-78	
HCWKI77	1397	920043	1-445	15-459	AI526025, AJ541507, AI557804, AI557719, AI526171, AI557741, AI557764, and V00115.
HCWKJ92	1398	792689	1-466	15-480	
HCWKJ23	1399	934393	1-464	15-478	AL041690, AI471481, AW261871, M86143, AA720702, AI903462, AI334435, AA551552, AA594145, AI432270, AA483223, AA559290, AA503600, AW301302, AA503119, AW050498, AJ133297, AA747777, AW023990, AA632612, AW406755, AA493708, AI334443, AA992351, AW103509, AI733755, N27329, AA806796, AA828042, AI358229, F29989, AA587667, T410501, AA810269, AA719805, AW083364, AW083402, AA491814, AA326441, AW273218, AI860020, AL119691, AA533303, H78195, AA502107, AI061334, AL042753, AI754336, AI918421, AI002834, AI382614, AA954936, AI801600, AI580652, AA810370, AA577959, F36306, AW062724, AA652057, AA623002, AA834755, AW118338, AL121385, AA503258, AI358812, AW022406, AA478355, AI866856, AI282511, AA496260, AA533725, AA572713, AA573725, AI732179, AA469451, AA503154, AA535661, AI702314, AA644538, AI049634, AW057877, AA483321, AA480784, AA657535, AA610491, AA071393, AA601876,

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					Accession Numbers
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HCWKJ60	1401	968112	1 - 364	15 - 378	T20034, and AL034548.
HCWKJ96	1402	571302	1 - 291	15 - 305	
HCWKM28	1403	849915	1 - 343	15 - 357	
HCWKM31	1404	697974	1 - 155	15 - 169	
HCWKM58	1405	849934	1 - 393	15 - 407	
HCWKM60	1406	740347	1 - 359	15 - 373	
HCWKM88	1407	792086	1 - 246	15 - 260	AA535661, F19258, H72666, AI886176, AI923140, AW157326, N99715, AW021917, AA340003, AI721122, AA501872, AA167741, AI761471, C18648, AI358229, AA584749, AA133986, AW339687, AW088058, AI439360, AI635272, AA366820, AW406447, AA332991, AI281903, AL120483, T12272, N23649, AI105766, AW261871, AW439558, F29989, H00934, T40338, AA652057, AA649642, AA377730, T40617, AI053786, AA581342, AI365988, AL133723, T16592, AA489775, AA365347, AA508080, AI863283, AA125788, AI742771, AW008317, AI567786, AA569284, AI561116, F31204, AI91470n, H18175, F18974, AI571512, AW074398, R93061. AI049634, AA515128, AA515435, AI375710, AW193432, AI284640, H60239, F25276, AA558697, AA363260, AW304584, N71724, H92005, F35659, AA483204, AI110822, AI446464, AA669251, AW276827, AA558227, AA016286, F28576, AI282907, AA973575, AI569086, AA441788, AW193265, T29180, AW337985, AA682189, AI079910, AW130799, AI445436, AW023270, AI802526, AI064864, AI890052, AA743956, AI963786, AI613280, AA181718, AA780929, AL118911, AI493546, AI079645, AI344844, F36273, F372286, AI521901, AA309485, AI471481, AA919037, AL048925, AL042856, AW193512, AA095511, AI963095, AI879000, AW270284, AW327360, AA745410, T58118, F36306, AA443065, AI688646, AA344959, Z84480, AJ246003, AL049836, AL121658, AC002429, AC005386, AC009501, AP000292, AF039905, AC004650, AL109653, Z93023, AC002981, AP000111, AP000043, AC018633, AC006030, AC004808, AL035411, AC002386, AL022147, AL009051, AL008629, AC005901, AF222686, AL034384, AC009405, AL035090, AL035671, AC004903, AL031116, AL132708, AC005158, AC003029, AC005723, AL049647, AL117693, AL109759, AF053356, AC007036, AC004485, AC004655, AL121603, AJ011930, AL049745, AC004453, AL031432, AC004738, AC006152, AC004069, AL109854, Z94044, AC008012, Z94056, AC002067, AL031602, AC008115, AC006347, AC004901, AC005341, AJ006345, AC004070, AC004072, AL133321, AC000085, AC007625, AC006071, AC005597, AL022165, AC004382, Z93242, AF111168, AC005280, U91322, AL033375, AC006482, AC007172, AL031542, AC002369, AF123462, AL022318, Z98036, AC011604, AC006046, AC006111, Z93928, AL049834, AC008008, AC007102, AC004458, AC005829, AL118497, AL035427, AC005183, AC007207, AC007743, AC004822,

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HCWKM90	1408				
HCWKN08	1409	960177	1 - 325	15 - 339
HCWKN57	1410	959380	1 - 270	15 - 284
		861537	1 - 398	15 - 412

HCWKO51	1411	959684	1-482	15-496	AL035667, AL022400, AC008033, Z98200, AC005076, AC003010, AF129756, AC006430, AP000962, AL050305, AC005071, AC006124, AC006347, AC005754, Z84487, AC004015, AC007686, AI250563, U91326, AF085997, AC004525, AC006985, AL034431, Z93930, AP000510, AP000502, AL008715, AL008635, AC010168, AC004929, AC005215, AC006463, AF118808, AL132992, AC000025, Z83826, AC002994, AC005527, AC006441, AC009721, AC007386, AF134726, AL109985, AC005040, AL022476, AC005529, AP000497, AL022323, M65145, AL031255, AL033544, AC006261, AC006165, AL050334, AB023051, AC002301, AC003983, AL034412, AF064863, AC004655, AL031279, AC005410, and AL009179.
HCWKO82	1412	827083	1-314	15-328	T65671, AC003030, and AC004539.
HCWKP03	1413	924104	1-318	15-332	F30824, AI198292, AC004742, Z97053, AC005391, AP000044, AP000112, Z84466, AL050332, and AL050318.
HCWKP51	1414	725653	1-333	15-347	
HCWKP53	1415	664923	1-296	15-310	AL022161.
HCWKP56	1416	849861	1-386	15-400	
HCWKP63	1417	732447	1-323	15-337	AA584765, Z85986, AC004032, AL022330, AP000462, AB017654, AP000511, and U91323.
HCWKQ31	1418	849851	1-533	15-547	
HCWKQ55	1419	706487	1-406	15-420	
HCWKR13	1420	917268	1-309	15-323	N23693, AA227713, AW304519, N23689, AI054395, N23688, H48670, T05410, AA88242, AA223762, AI557310, AI555513, AW263396, AA736445, AC009247, AC005019, AL096701, AL031291, AC004659, AC002381, AL078638, AL132987, AC004878, AC006101, AL139054, AC002059, AC018633, AC005874, AF134471, AC005839, AC005295, AC006211, AL117258, AC005095, AC002470, AC007308, AC002350, AF001552, AC003074, AC010077, AP000512, AC007774, AC007406, AC005988, AC008044, AC005089, AC006948, AC005316, AC002544, AL031054, AC004383, AC004522, AF109907, AC005317, AC006241, AC004966, AC006552, AC004236, AC007161, AL109628, AC002086, AC006480, AC005071, U40369, AC002551, M13792, AF003626, AC006088, AL096763, AC007677, AL022334, AC005519, Z95331, and AF207550.
HCWKR80	1421	527074	1-384	15-398	AI244254, N22058, AA715418, AA955031, AL078472, AP000023, AC004106, AF003626, AF139813, AP000555, AC004858, AC005277, AL139054, AL022163, AC004228, AL031311, AF109907, AC005972, AL031594, AF129756, AC005666, AC004878, AC004491, AL122020, AL049872, AC005971, AC008119, AC004983, AC006064, AC006111, AP000501, AL033392, AC005288, AL049780, AC004622, AC004913, AC002316, AC005844, AC005829, AL009179, AC005778, Z84483, AC003025, Z84483, AC004408, AC000085, AC004678, AL109758, Z84467.
HCWKS13	1422	657194	1-299	15-313	AW271211.
HCWKT11	1423	966989	1-355	15-369	

HCWKT43	1424	659539	1-230	15-244	AF134726, AL121653, AL096763, Z93930, AC005668, AC016025, AF196971, AL031591, AC005071, AP000692, AL021155, AC007421, AC004257, AC002477, AC004032, AC005663, AC002303, AC007055, AP000512, AC005736, AC005482, AL096791, AC003101, AC005041, AC005015, AP000359, AC005237, AF031078, AB023049, AC007486, AC011331, AF205588, AL031228, AC004552, AF037338, AC006001, AC005632, AF030876, AL033527, AC006271, AL035411, Z85987, AC005874, AF134471, AC006468, U91321, AC005529, AC006480, AL031427, AC004019, AP000502, AL109939, AC004525, AC005180, AC005324, AL009177, AC005081, AP000246, AL031664, AC005399, AP000509, AC002312, AC007845, AF045555, Z98051, AC006120, AL049829, AC005568, AL008715, AL049696, AC003982, AC006160, AL109839, AC005480, AP000032, AC002091, AL035467, AC005215, AC005102, AF001550, AL020995, AC002004, AL133246, AL096701, AC002310, AP000345, AC006277, AL121595, AL080248, AC006530, AC005484, AJ003147, AP000354, AL049569, AC002470, AC004517, AC002400, AL031662, AC005225, AC004895, AC004551, AP000103, Z84487, AC007934, AC002364, AL022329, AC005531, and AL049759.
HCWKT57	1425	881629	1-331	15-345	AC006014, AC005488, AL049869, U29895, AC005529, AC005372, AD001527, AC005081, Y18000, AC007225, AC005011, AL021155, AC002544, AF111167, AC004526, Z85987, AC006538, AC002470, and Z98949.
HCWKT63	1426	849944	1-463	15-477	
HCWKV68	1427	959801	1-241	15-255	
HCWKV77	1428	527554	1-388	15-402	
HCWKV85	1429	932540	1-373	15-387	
HCWKX13	1430	466512	1-393	15-407	AA694449, AA568961, and AL031602.
HCWKX61	1431	676895	1-400	15-414	
HCWKX68	1432	725014	1-345	15-359	AC007463.
HCWKX77	1433	772163	1-405	15-419	
HCWKX81	1434	724873	1-437	15-451	
HCWLA68	1435	665744	1-291	15-305	
HCWLD01	1436	916439	1-691	15-705	AI476149, AI476150, AA310216, H90114, AA742815, AA904211, AA468371, T50676, AA468505, AA230025, AA614254, AA228368, N73060, AI050760, AI572680, AA188423, R33091, AI281561, AA224889, AI457313, AI634187, AW069227, T03928, AI431513, AI917132, AA584756, AA302978, AW104637, AI679221, AA171892, AA135761, AI310992, AI300818, AW243808, F29968, AI601229, AA228269, AJ628859, AI884522, AA654763, AA728911, AA525753, AW340905, AI583142, AI754653, AA017149, AW028376, AW068008, AW068007, AA297776, F17537, H84412, AI277318, AI271762, AA077776, AA278496, AA493628, AA492524, AI635440, AI473995, AA206707, AW069537, AA557945, AA573062, AA587826,

HCWLD06	1437	935392	1-439	15-453	AA053136, AI613389, AW028950, F00688, AW194024, T94072, AI267356, AA743968, AI039257, H43771, AA367920, AW067788, AA470512, AW341882, R34070, AA702717, AI872461, H52283, AA827490, AI732502, AA015753, AL050318, I34294, AL109798, AC005081, AC018633, AP000511, AC005495, AL035659, AC004967, AL022326, AP000694, AF165926, AL049872, AC004211, AL020097, AL022333, AC006501, AC005520, AC007384, AP000032, Z85987, AC005774, AC007546, AP000103, AL034420, AB023049, AB023050, AL136295, AC002072, AF178030, AL049712, AC002430, AP000513, AC006241, Z83845, AF111168, U78027, AC002302, AC006449, Z99716, AC006581, AF050636, AL122023, AC004797, AL049697, AL035422, AC004985, Z68276, AL031427, AP000269, AC007193, AC002310, AJ251973, AC005755, AL008723, AL031284, AC002477, Z82208, AC004815, AC002395, AL031685, AB009695, AC007314, AF045542, AC006455, Z95114, AC005874, AF134471, AC003692, AC005519, AC006948, AC006077, AC005781, AC000041, AB020868, AC005015, AF207550, AL049776, AL035072, AC005480, AF001550, AC006211, AL021392, AC006312, AC005815, AP000359, AC005291, L44140, AL035658, AF196971, AC000025, AC002553, AC004024, Z97056, AC004686, AC007993, AL109963, Z54246, Z82215, AC002365, AC004148, AC007130, AC007371, AC004623, U91318, Z84469, Z99129, AL031584, AF001548, AJ003147, AL133243, AC008735, AC006079, AF049913, AL031657, AF024533, AL050337, AP000289, AC005736, AL035413, AL096701, AC005776, AP000042, AP000110, U26425, AB017602, AC007225, AL035587, AC004922, AC007199, AL034548, AL022165, AC005563, AC003688, AL022316, AC005484, AC004922, AC005972, AC005070, AL023553, AF053356, AC006966, AC006958, AL034582, AC007052, AL031670, AC005914, AL049713, AL034423, AC005899, AC002425, AC005696, AL096791, AL035455, AL035458, AC004531, AC002985, AL132708, AP000048, AL022311, Z93241, AC006050, AP000348, Z98036, AL022327, AC006126, AC005924, AP000351, AC002059, AC007639, AL121603, AL031296, U62292, AL031577, AL022336, AC004770, AC002544, AC006120, AC007421, AF196969, AC002091, AC004707, AC000085, AL049553, AC002301, AC004755, Z84718, AC000353, AC004655, Z99774, AC003030, AC004675, AC005670, AL049871, Z83846, AL031311, AL022163, AC002316, AP000350, AC005004, AC005046, AF038458, AC004765, AC005911, AC005726, AP000512, I85195, AC004560, AF001549, AL049709, Z84487, AL021878, Z98304, AL035461, AC003007, AP000504, AP000086, AL050341, D89927, AC005759, AC005225, AF111169, AC004150, AL022312, AC004234, AC004477, AC004645, AC005071, AL109628, AP000045, AC004448, AC004884, AL049610, AC005409, AP000555, AC004383, AC003969, AL049757, AL096794, D86995, and AI002059.
HCWLD30	1438	933118	1-419	15-433	AA302812, AL041375, AW340905, AW277174, AI291037, AL047349, AW270768, AA484892, AA630476, AA411788, AA570740, AA483606, AA228778, AA524616, AI199816, AW089625,

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AA610381, AI733856, AA582554, AW274078, AI859438, AI357976, AA513916, AA120920,
N67313, AA424249, AA558488, AA609834, AW167154, N23913, AW023270, AA572983,
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AI282479, AI278972, AI421950, AW408767, AI419337, AI598003, AI446623, H47736,
AI285696, AI590593, AL119691, H60912, AI590404, AW068853, AI961983, R52008,
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AL035417, AF129756, AC006014, AL080243, AC002477, AL117694, AL121653, AL049760,
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AC006121, AC005921, AC005145, AL022336, AC004878, AC002351, AP000556, AF196969,
AC003043, AL031589, AC005971, AF205588, AC004253, AL024507, AC006057, AC004491,
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AP000472, AP000117, AC004765, AL021453, AC016830, AL050321, Z84476, AL117351,
AC002350, AC006251, AC005881, AP001053, AL133245, AL008730, AC004659, AL031289,
AC004913, AL121595, Y14768, AP00001, AP000159, AC006160, AC004596, AC006449,

HCWLD83	1439	1 - 304	15 - 318	AL136295, AJ246003, AP000133, AP000211, AC006942, AD000833, AC005529, AP000694, AC002045, AC002544, AC005778, AC002310, AP000505, AP000152, AC006211, AC006071, AL035413, AP000261, AL031186, AL049830, AF111167, AC005790, AP000558, AF047825, AC002301, AC008072, AL109963, AC003663, AF001549, AC004383, U95742, AC005488, AL031432, AC007450, AP000313, AC004707, Z97876, and AL034423.
HCWLE11	1440	1 - 399	15 - 413	AI431966.
HCWLE34	1441	1 - 416	15 - 430	AC004687, AB014512, and AF039571.
HCWLE37	1442	1 - 400	15 - 414	
HCWLE46	1443	1 - 516	15 - 530	
HCWLE57	1444	1 - 471	15 - 485	
HCWLE64	1445	1 - 300	15 - 314	AA837796, AI521042, AA666066, AI587565, AI587583, AF141309, AC007227, AL020997, AC005231, AC006597, AL096791, AC005972, AC004686, AL021546, AC007845, AC003035, AC016025, AC004703, AP000359, Z93023, AL117328, AC004263, AL009181, U96629, AP000355, AC005015, AL034553, AF061032, AC004796, AD000812, AP000354, AC004041, AC003110, AC006344, AC002091, AC002126, and AL031672.
HCWLE95	1446	1 - 175	15 - 189	
HCWLH02	1447	1 - 688	15 - 702	AL038842, AI049630, AI733856, AA491423, AA528566, AA525517, AI886360, AI707744, AA508873, AI243793, AA873381, AA513189, AA765925, AA283081, AC007055, AC004804, AF019413, AL031848, AC005548, AC007193, Z75407, AL031678, AC007537, AL121658, Z98742, AC008101, AJ246003, AC005696, AL121603, AC004491, AC008079, AC005746, AL117354, AC005696, AL121603, AL021155, AC005562, AL035405, AC005409, AL031228, Z84480, AF134726, AC004020, AC005015, AL035089, AC004033, Z95152, AL031295, AC005058, AC005358, AC005015, AC007011, AC005899, AC007160, AL133448, AP000689, AC005180, AB023048, AC004605, Z83846, AC002369, AC004686, Z82176, AC005231, AC004859, AL109628, AP000497, Z93017, AC002316, AC005209, U62293, AC002352, AC006271, Z97630, AC005520, AC003029, AC006001, AL031311, AL121757, AC004797, AC006211, AC002302, AF118808, Z75741, AC005620, AL031685, AC004254, AL132712, AB003151, AP000704, M17262, AF124523, AC009069, AL109984, AL008719, AC004673, AL109827, AP000556, AC020663, Z96074, AC002351, AL109984, AL031276, U96629, AC004477, AL031846, AP000692, AC005071, AL031666, AC005529, AL031276, AC004883, Z95115, AC006026, AL133163, AC003093, AL034548, AC002418, AC006120, AC004883, Z82215, AC002299, AC000026, AC006057, L78810, AL049760, AF126403, Y07848, AC005740, AL021707, AC004476, AL034423, AC009516, AF111168, AL008631, AF015720, AC003982, AC002299, AC006111, AC007731, AC006285, AC003007, AC005500, AL021453, Z82215, AC000026, AC006057, L78810, AL049760, AC003110, AC004531, AC005695, AC004386, U72788, AC006449, AC000353, AC004099, AC006160, AP000500, AP000500, AL008635, AC004856, AL121655, AL139813, U95742,

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HCWLH09	1448	625558	1-517	15-531	
HCWLH20	1449	529356	1-336	15-350	
HCWLH42	1450	954875	1-677	15-691	AI791227, AA524604, AI708424, AI141202, AI628922, AL134669, AA663579, AI572680, AA504951, AI791720, AI791408, AL079869, AL119331, AA595370, AA577824, AA454870, AI708663, AW021674, AA723282, AI732327, AI828721, AW238137, AA640305, AI753969, AI745666, AI732720, T59943, AI174827, AW022796, AI889177, AI003086, AI049999, AI890297, AW338376, AA171400, AL042539, AI310464, AI434103, AA601712, AI733523, AW248479, AA218684, AW008217, AI860423, AI734119, AA084320, AI312614, AI044966, AI344906, AI270280, AA569220, AI148840, AI254267, AA643788, AA199578, AI221027, AI884404, AA652675, AW275432, AA330549, AW157128, AL044701, AA629668, F25759, AI872229, H64858, H64884, AW338633, H59797, AI679902, AI925423, AI679394, AI678812, AL036896, AA284638, AI884763, AA618531, AA554289, AI567676, AI678468, AI038029, AA525818, AA470490, AA834891, AI281622, N70293, T03576, AI963816, AA493546, AL133238, I191321, AB001523, AC005288, AC004703, AC004752, Z84474, AC006130, AL021940, AC006581, AL035086, AL021391, Z97054, AC007537, AC005412, AL008582, U80017, AF134726, AC005971, AP000692, AC008372, AC005358, AL132777, AL031587, Z84466, AC005519, Z98051, AL022315, AP000512, AL122020, AC005484, AP000099, AC006162, AF111168, Z82198, AC002310, AF118808, AP000365, AC003982, AL031846, AL031666, AC007226, AC002312, AP000036, AC004125, AC005585, AL121603, AC005180, AC008044, AC006197, AC004816, AL049776, AC007878, AP000555, AC006254, AF053356, AC005899, AC004638, AP000503, AC005839, AC005747, AC006121, I163721, AC005829, AC006453, AC009516, AC007376, AC002418, AC004821, AB023051, AL049694, AJ246003, AC005326, AL078593, Z82201, AC004913, AC004890, AC005291, AC007227, AL022323, AC005837, AL031283, AI022165, Z97053, AC005031, AC005527, AC005280, AL080243, U78027, AC005261, AL031670, AC004832, AC005015, AL049759, AL121595, U85195, AC004099, AC007686, AC005529, AC004386, AC007421, AC005666, AL031427, U52112, AL022316, AC005911, AC006511, AC005199, AC005409, AC022163, AC006277, AC006026, I162293, AE000658, Z83840, AC005932, AC006538, AD000092, AL031311, AL034549, Z98200, Z93017, AC006241, AF111167, AC005701, AL049869, AL096701, AC003665, AC006530, AC004796,

HCWLH75	1451	670202	1 - 232	AC002429, AL035422, AC005696, AL035455, AP000359, AL022476, AF088219, AF107885, AC007688, AL034420, AC005037, AC002375, U91325, AC006312, AL035460, AL009181, AC002377, AC005377, AL121655, Z98044, Z98048, AB003151, AC003151, AL008718, AC004659, AL022238, AC004805, AC007934, AC005632, AL049757, AC004673, AC007546, AL121653, AL117258, AL132712, AC016025, U62317, AC005553, AC005531, Z82208, AC006449, AL139054, AC005231, AL022326, AI003147, AF111169, AC004702, AL109952, AC005755, AL022336, AC004671, AC006057, AC005089, AC007051, AC004228, AL035587, AL035659, AC005920, AC004997, AC002477, Z98742, AC006040, AC006344, L78833, AL133448, Z99716, AC003025, AC005907, AC004929, AL020997, AI251973, AC004883, AC005355, AC006509, AC000379, AL050307, AC005057, AP001065, Z95114, AF109907, AP000279, AC004895, AL021707, AF139813, Z83844, AC005730, AC004812, AL023807, AC004263, AC003041, AP000553, AC006806, AC004662, AL024498, AC004150, AC003966, AL031003, AL050317, AP000556, AL035072, AC006001, U47024, AC006120, AL031286, AR036572, U91328, AC006211, AP000350, AC005722, AC007151, AC003957, AC003043, AC007160, AC004859, AC004967, Z92542, AC004491, AC004019, and AC007690.
			15 - 246	AI848861, C16780, C16638, AI267356, AA224525, AW270429, T02817, AI267450, AW270351, AI859906, T07225, AI084157, AW062363, AA706160, T08386, AA121784, H47368, AI002389, AI690474, AA730336, H38228, AL044177, N38991, AAS26401, AI469392, AI889426, AI791227, AI732911, AA995373, F35684, AI984118, F30497, AA078509, AA652763, N29930, AI143653, AW019964, AW342143, N64577, AA598605, AI860535, AA857812, AA186905, H25626, AI537800, H83126, AW104831, AI888298, AI279477, AL021154, U02052, AP000432, AC005940, AL096701, AC005288, AC006130, AC006019, AF124730, AL117354, AC000026, AC004234, AL035695, AC009247, Z93930, AC005740, AL031670, AL031846, AL022165, AC007386, AC006965, AF196972, Z84480, AL022320, AC006255, AC004531, AC006930, AF020503, AP000501, AC004941, AC007283, AL078638, AF001549, U95742, AC005822, Z93016, AC006146, AL022316, AL033527, AL031277, AC007216, AL132712, Z97184, AL031664, AC007388, AC000092, AC006285, AP000466, AC005746, AC002316, AP000555, AC006539, AL034420, AC002059, L47334, AC000052, AC016025, AC005618, AC007376, L48038, AL035072, AF172277, AC002368, AP000550, AC006251, AL023281, AC004973, AL034553, Z83826, AC004967, AL022313, AF047825, AC004019, AC005488, AC005856, AC006538, AC005251, AF196779, AC005154, AC005004, AC006241, AL050348, AC005696, AL035455, AL022323, AI008583, AC004879, AC005911, AF111167, AP000557, AL008582, AC006236, AB023048, L78833, AL110279, AL49758, AL035086, AC006529, AC003965, AC003689, Z97635, AL034451, AL031311, AL049758, AC007358, AC004491, AC007193, AL034369, AC006946, AC004799, U95740, M17262, AP000349, AC005913, AC004448, AC005399, AL109657, U91321, AC008018, U95740, AC007690, AC002326, AC005519, AC000349, AC007066, AF064863, AL022326, AC006441, AP000553, AC007690, AC002326, AC005913, AC004448, AC005399, AL109657, U91321,

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HCWLH78	1452	935908	1 - 354	15 - 368	
HCWLH79	1453	959458	1 - 433	15 - 447	AF161019, and AJ131890.
HCWLH80	1454	577886	1 - 387	15 - 401	
HCWSB09	1455	923573	1 - 235	15 - 249	T06288, AI568754, T51118, AA626678, AI160117, T58567, AA347027, AA633892, AI439360, AA515224, AI872227, AI874231, AC006333, AL008721, AC006975, AC003041, AL035681, AL034351, AC007676, AC006026, AL031657, AC005754, AC000052, D84394, AL096701, AC004019, AL021155, AC007637, AL118497, AL049697, AL080243, AC003982, AC002433, AC004972, AC005778, AC000003, AL022238, AC004890, AL021878, AP000313, AL021808, AC005023, U95740, AL049869, AL035072, AL022316, AP000050, AC021092, AC007064, and AF148319.
HCWSB30	1456	771897	1 - 496	15 - 510	AI914747, H06604, AL096701, AC004491, AC007055, AL023607, AC002559, AC007308, AC002470, AC005632, AC004834, AC004099, AP000044, AC012384, AC004967, AC003071, AC005089, AC003982, AC005189, AL031685, AC005915, Z93017, and AC006441.
HCWSB65	1457	728360	1 - 326	15 - 340	AC007536.
HCWTA02	1458	919258	1 - 341	15 - 355	
HCWTA59	1459	531422	1 - 221	15 - 235	
HCWTB01	1460	861850	1 - 358	15 - 372	AA135868, H73889, AA569179, AI281401, N55456, R48980, AA652949, AA302934, AL041895, AI364568, AA643770, AI800852, AI292317, R35259, H24957, AA247731, H66021, H58970, T06292, AA278496, AL037006, N74027, AA320232, AL036665, AA58487, AA856817, AA504865, AL080317, Z99128, AL034551, AC009223, AC008041, AD000813, AP000502, AF134726, AF126403, AC002116, AC002465, AC004139, AC004257, AL049569, AC003108, AC011331, AC004921, AC007388, AC004883, AC006392, AL031650, AL118516, AC006511, AC005488, AL035682, AL050321, D84394, AP000509, AF196969, Y10196, AP000135, AL121655, U80017, AC008134, AC006273, AC004185, AP000031, AC007878, AC004655, AC004914, AF030453, AC006088, AC004970, AC004671, AD000812, AL050318, AC005088, AL022324, U47924, U63721, AC000379, AL133245, AC007066, AL022315, AC005726, AC005324, AC000086, AL133243, AL031278, AC008044, AC005255, AC002126, AF024534, AC005480, AC020663, AL121653, AL031597, AL009051, AL049759, AC005578, AL008715, AC007360, AP000109, AP000041, AP000044, AP000112, AC005251, AF111168, AC006025,

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HCWTB08	1461	920509	1-317	15-331	AI657485, N83963, N87188, N83707, AC006993, AF045432, U48697, AI243486, U48696, U39066, AR018815, AF102850, AF001863, AF061744, AF011573, X99052, Y16299, X99058, X99051, X99055, X99060, and X99057
HCWTB11	1462	965024	1-328	15-342	
HCWTB13	1463	861029	1-347	15-361	
HCWTB14	1464	657621	1-315	15-329	
HCWTB25	1465	677748	1-429	15-443	AI045970, AF034803, and AL049694
HCWTB31	1466	697615	1-465	15-479	
HCWTB33	1467	702129	1-543	15-557	AI341348, AA167659, AA716348, AI798489, AA490183, AW274346, AI345654, AW419262, AI613280, AW193265, AW438643, W47183, AI350211, AI341664, AA446657, AA577906, AA551503, AI375710, AA719805, AI688846, AA973803, AA350859, AA599920, AW193432, AA649642, AA463223, AI121385, AI754658, AA486414, AI792518, AW408707, AA601222, AI962050, AA586458, AI061334, AA970213, AI619997, AW118338, AI002834, AI814735, AW080134, AA828712, Z97196, AC002470, AP000045, AC003957, AC006946, AP000501, Z94277, AC007685, AL022315, AC005632, AL023575, AL049795, AU049712, AL035659, AC007191, AC005291, AL022315, AC002430, AL031666, AL008718, AC005696, AL121748, AC007014, AC000353, AC007919, AC006241, AC004019, AL133371, AC007384, AL008627, AC009247, AC005231, AC006241, AC005900, AC005746, AC005393, AC004584, AL080243, AC007128, AL050342, AP000113, AC005778, AC008372, AC003007, AR036572, AC007151, ...

HCWTB36	1468	529499	1-405	15-419	U91328, AL031123, AC005004, AL121603, AC006006, AC007387, AL022163, AC007666, AC005899, Z98744, AC007298, Z69917, AC004972, U95742, AC005037, AL133304, AC006153, AL022323, AC003977, AL035455, AF200465, AC008079, AC005754, AL122021, AL049709, AC006344, AL135744, AL031257, AP000140, AL034351, AL139054, AL035411, AC004814, AC007564, AC005261, AC005784, AL022316, AC005081, AF067844, AC005971, U91321, AC005871, AC004859, U63630, AC007216, AC005071, AC006501, AL049766, AC007676, AC005859, AC004453, AC005839, AC004448, AC004765, AL117258, AC006211, AC008115, AC005209, AL109865, AC004522, AC007308, Z98051, AP000088, Z73967, Z98200, AC004815, AL023494, AP000065, U18399, AC005089, AC003072, AC005944, AC006449, AC002385, Z68284, AC007225, AC002307, AC004029, AP000459, AC008134, AC004167, AP000117, AL049759, and AC002310.
HCWTB38	1469	732440	1-340	15-354	
HCWTB56	1470	853009	1-474	15-488	
HCWTB65	1471	861848	1-401	15-415	
HCWTB77	1472	771887	1-434	15-448	AC005045.
HCWTB83	1473	730832	1-365	15-379	AC004963.
HCWTF05	1474	849954	1-304	15-318	
HCWTF11	1475	966513	1-734	15-748	
HCWTF19	1476	668358	1-353	15-367	
HCWTF72	1477	760898	1-349	15-363	AI679759, AA313133, AA548692, AI065043, AA968509, AI362442, AA092862, AA128969, T60940, T39390, AI624990, AI620548, F00211, W44359, AW029574, AA904211, AI141653, AI289050, AI284092, H25626, AI254508, AI251696, AA302812, AA564256, AA598608, AW054936, F25640, AA814719, AA515929, AL042869, AA021139, AA557984, AA728911, AA857812, AA779018, AA132929, AA633565, AA457482, N57709, AA437402, N73060, AI917053, AI341664, AA700481, AW029269, AI560054, AW080772, AC006241, AC005755, AC004626, AC007066, AD000092, AC007055, AC009399, AL049636, AL031056, AL049643, Z92540, AC007376, U62317, AC005081, AL049779, AC002350, AC010170, AC005180, AC004832, Z98949, AC004686, Z92541, AB009666, AC004938, AC009181, AC005015, AL021393, AL049540, AC004623, AL117355, AC005920, AL035683, AC005071, AC007151, AC016026, AC004983, AL117330, AP000553, AC006285, AC002088, AC005993, AC008064, AC005826, AC005751, AC009721, AC005065, AL049871, AC007041, Z98304, AC007421, AC010582, AL034549, AC004383, AC008000, AC005829, AC022517, AL049780, AL022329, AL008582, AP000692, AC006236, AC005690, AL022165, AC005599, AB015355, AL021407, AL022316, AC002073, AC005291, AC007541, AC006127, AC002563, AL035659, AC006388, AC008124, AC006121, Z98052, AC006539, AC006277, AC006966, AC005231, AC005736, X51956, AL022396, AC000003, AC007938, AL031315, AC002558, AC006323, AC005666,

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Name	ID	Number	Range 1	Range 2	Accession Numbers
HCWTG01	1478	915863	1 - 451	15 - 465	AC007766, AC005874, AF134471, AC002476, AP000495, AC005102, AC006077, AC005519, and Z82215.
HCWTG15	1479	659860	1 - 539	15 - 553	T09124, H29110, AC007239, and AL117258.
HCWTG26	1480	681271	1 - 542	15 - 556	
HCWTG30	1481	954579	1 - 184	15 - 198	N83963, AI657485, N87188, N83707, U39066, U48696, AF045432, AJ243486, U48697, AR018815, X99056, X99052, Y16299, X99058, X99051, AF102850, AF061744, X99055, AF011573, X99060, and X99057.
HCWTG44	1482	657911	1 - 559	15 - 573	
HCWTG45	1483	662482	1 - 372	15 - 386	
HCWTG60	1484	740078	1 - 372	15 - 386	
HCWTG66	1485	754823	1 - 426	15 - 440	
HCWTG77	1486	924107	1 - 292	15 - 306	H54210, AA594169, T94094, T94176, AI445316, AI762836, AA601422, AI821390, AA054639, AC004263, Z99943, U95740, AL021546, AC004596, AC005412, AL132777, AC005372, AC018769, AC002091, AC006441, AL021394, AC005696, AC008372, Z85987, AL022476, AL008726, Z97200, and AP000556.
HCWTG81	1487	773341	1 - 339	15 - 353	
HCWTI25	1488	669935	1 - 421	15 - 435	
HCWTI33	1489	701757	1 - 321	15 - 335	
HCWTI38	1490	576883	1 - 355	15 - 369	
HCWTI44	1491	689971	1 - 384	15 - 398	
HCWTI47	1492	720023	1 - 341	15 - 355	
HCWTI54	1493	723080	1 - 263	15 - 277	
HCWTJ01	1494	915878	1 - 322	15 - 336	
HCWTJ50	1495	724072	1 - 297	15 - 311	
HCWTL24	1496	676906	1 - 311	15 - 325	
HCWTL25	1497	598511	1 - 428	15 - 442	
HCWTL51	1498	725482	1 - 425	15 - 439	AA493760, AA494202, AA362037, R10297, AC003003, AC004084, AC003669, AP000344, AC004967, and AC003010.
HCWTL52	1499	573539	1 - 321	15 - 335	
HCWTL58	1500	697623	1 - 380	15 - 394	
HCWTL69	1501	960597	1 - 440	15 - 454	AW393605, AI526146, AI541503, AI526179, AI557778, AI541501, AI526154, AI541531, AI541493, AI526185, AI557718, AI557740, AI557747, AI541516, AI557797, AI541487, AI557735, AI557779, AI541515, AI526178, AI541489, AB010555, V00124, V00125, J00036, J00037, J00034, J00030, J00038, J00032, and K00133.
HCWTL78	1502	760707	1 - 217	15 - 231	AC004539.

HCWTL85	1503	836155	1 - 426	15 - 440	AA635433, AA302982, T71936, AI249688, AI653525, AA515742, AA603264, AI049643, AA015948, AI587349, R70883, AI245679, AA368659, F31867, AA568204, AA570740, AA483606, T07878, AA229988, T49933, AI198718, AW051819, AA550959, AI289505, AA229159, AW304699, AI038304, AA809153, AA661948, AA516206, AI754567, AI569100, AW192599, N28624, AI754105, AI755214, AI821805, AW028950, AW188742, AW243945, AI791659, AI821056, AI080307, AA666295, AA167293, AA936718, AI792092, AC004216, U91321, AF124731, AC005358, AC002395, AC003070, Z98941, AF111168, AP000513, Z84469, Y10196, AL049776, AC007637, AC004859, AL021394, AC003037, AC004562, AC004913, AL022721, AC004686, AC006479, AF030453, AL049569, AC004765, AC005972, AL022238, AC005251, AC004382, AF001552, AF067844, AC005031, AI035090, AC005212, AC005049, AP000510, AC003954, AC005921, AL021918, AC005231, AC005632, AC007308, AC004832, AC003007, AL049760, Z82244, AF029308, AL109758, Z85986, AF109907, AC004159, AP000501, AC004694, AC005899, AL031431, AC005815, AL080243, AC006455, AC003665, AF196969, AC009509, AC006077, U80017, AL133243, AC006430, AC006050, AC006487, AC006449, AL023575, AC006026, AL121658, AL049709, AC005192, AC005015, AC005081, AL031255, AC004491, AL133245, Z98950, AL121653, AC004020, AL035455, AC007934, AC005325, AC004620, AC004383, AC002312, AL034429, AL109798, AC004816, AC006581, AL031848, AL049694, AC005562, AC006372, Z82198, AC004890, AL034423, AC004797, AC007437, AC004526, AC003990, Z98743, AC005913, AF130343, Z99716, AC005274, Z98036, AC003009, AL031733, AL109827, AL049795, AL031575, AL033530, AC006211, AC007731, Z82181, AC005070, AC007687, Z85996, AP000116, Z98946, AC007899, AC004865, AL109627, Z93020, AC004583, AC005696, AC009721, Z97053, AL031311, AL031681, AC002429, AC004783, AC007388, AF049895, AC005754, AC005160, AC005288, AL035400, AC004477, AL050318, AC007690, AC000379, AC002558, Z97195, AC005412, AC004584, AC004662, AC005901, AL132777, AC005088, Z97054, Z95152, AC002565, AC007617, AC004998, AC005089, AL023553, AP000065, AC006007, AC004019, X87344, U80460, AL022336, AL139054, AC005189, AP000065, AC002044, AL035684, AC006965, AL049712, AC005829, AL133353, Z99496, AL031121, AC042350, AC002044, AL139165, Z82188, AC009247, Z84466, Z98200, AC005900, AC009294, AC002347, AC006006, AL139165, AC003101, AC002059, AC004990, AC007052, AC006120, AC005500, AC005881, AB003151, AC003101, AL034549, AC005225, AC009946, AC007065, AB026898, AL121754, AC006060, AC005920, AL034549, AC005291, AC020663, AL135783, AL022163, AC005736, AJ010770, and AL031286.
HCWTM16	1504	661569	1 - 378	15 - 392	AA852413.
HCWTO06	1505	934912	1 - 347	15 - 361	AA666332, AI287475, H72530, AA640410, AA640430, H93453, AI049508, AI366993, AA536016, AW020893, AA478355, R99851, AW360845, AW376931, AI873852, AA679936, AA704393, W52505, AW168420, AI783581, AI732120, AA680243, R98221, H70076, AI110595,

		AI207465, H06140, AL120343, AA961035, AA493894, AA574079, AW020088, AI963221, AA829036, AI311647, AI912599, AA449997, AI085242, AW170729, AL037554, AA935988, AW438539, AL038072, AW023149, AA573631, AL121235, AI282479, AI630643, AC003102, AL078463, AC004382, AL021331, AL031602, I96629, AC002511, AC006539, U47924, AC005209, AC005529, AC004525, AL022165, AL034549, AC002470, AC004655, AL008635, AL035450, AC004743, AL031848, AL035587, AF050154, AL033517, AC006946, AL035691, AC006965, AC007666, AL133448, AC004466, AL031575, AC004787, AC005954, AC004019, AP000700, AC003029, AC004217, AL135744, AC007199, Z68870, AC007842, AC005952, AP000088, AC002457, AC000052, AL021918, AF053356, AC006271, Y18000, AC000159, X69951, AP000352, AC006430, AL049694, AC004386, AC008115, AC006064, AL022476, AL049830, Z98884, AC004526, AL050341, AC005295, AC010722, AC004752, AC005180, AL031053, AC005512, U62293, AC005821, AC007681, AC007225, AC006115, AL031281, AL031229, AC004797, AC011311, AC005772, Z86090, AC003042, AC005884, AC004520, AP000365, AC005102, AC002996, AP000047, AL031286, AC003982, AC006261, AC004257, U95742, AC005736, AC004485, AL132712, AC005903, AC005903, AC005585, AP000031, AC004551, Z97183, AC008122, AC005829, AC002377, AP000204, AP000126, U07000, Z98941, AC002425, AP000516, AL121603, AC007993, AC006211, AL139054, AC016026, AL049836, Z82208, AC007216, AC005057, AP000338, AP000201, Z98742, AC005908, AP000244, AC005305, AC008041, AC004602, AC005179, AC005670, AC005078, AL049761, AL031737, Z98743, AC004741, AC004694, AL035458, AC004972, AP000216, AC006449, AP000097, AC006111, AC007055, U07562, X77738, AC005920, AL033376, AP000252, Z77249, AC007536, AC004771, AC006511, AL049779, AL096791, AC005099, AC005486, AC005933, AC002119, AC004611, AL109755, AL049759, AC005971, AL021393, AC006441, AL021391, AC006236, U91318, AP000134, AP000212, Z83840, AL031311, AC006155, AL049776, AC005899, Z93783, AC005081, AF196971, AL050348, AL031311, AC006155, AL049776, AC005899, Z93783, AC005081, AL078621, AC002045, AL020995, AC007688, AC005235, AF129756, AC005476, AC000353, AC009247, AC005049, AC005088, AL035692, AC007011, AL049632, AF001549, AC003963, AC005280, AL133485, AL035423, AF207550, AC004453, AC007685, AC011331, AC008116, AC005330, AL031433, AL034379, AC005562, AL021528, AL031657, AC007308, AC005764, AC005060, AC006011, AC002115, AC005911, Z84486, AC006996, AC005758, AC002544, AC006479, AC005756, and AC000066.				
					AA843187.
HCWTO29	1506	660457	1 - 398	15 - 412	
HCWTO35	1507	706525	1 - 379	15 - 393	
HCWTO52	1508	726444	1 - 425	15 - 439	
HCWTO60	1509	681257	1 - 193	15 - 207	
HCWTP13	1510	656678	1 - 361	15 - 375	
HCWTP22	1511	674158	1 - 420	15 - 434	

HCWTP76	1512	731438	1 - 515	15 - 529	Z25525, and Z25531.
HCWTP77	1513	529346	1 - 399	15 - 413	AL035443.
HCWTP90	1514	788663	1 - 380	15 - 394	AA410788, AW130427, AA714011, AAS83394, AA644090, AI923052, N23504, AA610509, AAS74442, AW148507, AI753113, AW023111, AA191418, AI085867, AL040054, AI123396, AA603530, AA449997, AI962030, AI066646, AW238253, AL037910, AI370475, AAS33408, AA659232, AI056177, AA659535, AAG01327, AI251576, AAS78621, AI278972, AI587583, AI587565, AI908093, AA630672, AL037632, AA833896, AI821987, AA714110, AI732869, AI086603, AW302711, AAS79427, AIS83466, AA833875, AAS26683, AAS57982, AA847508, AA702729, AAT15814, AAS70588, AW188427, AAS26326, AW190302, AI279417, AA613624, AI016704, AI755202, AA629540, U48696, J00083, M37468, AF031078, AF030876, U67822, AL109798, U67820, AC004216, AC000408, AC002288, AL109627, AC005104, AF134726, AL020993, AB003151, AC000070, AL023575, AC007376, AC002364, AC005102, AC000353, AC005089, AP000502, AC005520, L78833, AC005305, AL020995, AP000691, AC005529, AC005005, AP000076, AC006023, AC005015, AL049757, Z85986, AC004962, AL049872, AF001550, Z95116, Z97183, L11910, AL031680, AP000689, AL035684, AC004050, AC006511, AC009247, AL133448, AL049766, AC004938, AC007690, AC002316, AC005952, AC005180, AC002546, U91323, U07563, Y18000, AF045555, AC002316, AC005988, AC000039, AL022320, AC003043, AL031056, AP000688, AL022311, AL035659, X76498, Z84469, AC004817, AL022327, AC005291, Z49235, AC005057, AC004967, AP000031, AC002395, AC007298, AC005081, AL136295, AL109801, AL121603, AL139054, AC002306, AL031276, U48697, AC006344, AC004859, AL049569, Z82178, AC003098, AC004813, AC007057, Z85987, AC007510, AP000049, AC005581, AC004883, U85195, AL020997, AC005933, AC002072, U47924, AL121769, AC006132, AL034429, AC004644, AC007450, AF053356, AL035587, AC005227, AC006509, AL078638, AC002219, AC003101, AC004525, Z98048, Z98200, AC004821, AC002369, AP000065, AL133163, AL133246, AL078581, AC008040, AP000311, AC005694, AC002472, AC005261, AC007052, AE000658, AL031295, AC007686, AC005722, Z99755, AC005064, AC005884, AC006538, AC006530, AC007435, AL008719, AF093117, AC006953, AL035420, AC005037, Z82206, AC006239, AC006239, AC002492, AC005014, AF019413, Z98946, AC002404, AP000167, AP000120, AP000052, AC002492, AC005152, AP000117, AC004253, AL109758, AC007999, AL080243, AC006077, AB023048, Z95152, AP000117, AC006211, AC004253, AL022323, AC000004, U07562, Y10196, AC002563, AC005736, AC004596, AL049776, AC007731, AL022323, AC000004, U07562, Y10196, AC007899, J03071, AC000338, AC004797, AC006111, AC003982, AC005940, AL121653, AC012085, AC004815, AP000338, AC004797, AC006275, Z93244, and AL031662. AC006121, AC005841, AF095687, and AC008039.
HCWTP91	1515	661551	1 - 521	15 - 535	F05533, F05160, AF095687, and AC008039.
HCWTR08	1516	958791	1 - 334	15 - 348	
HCWTR54	1517	729290	1 - 333	15 - 347	AA904275, AA593471, AW020198, AW167154, AA112924, AA381762, H65464, AI285521,

| HCWTR77 | 1518 | 659506 | 1 - 380 | 15 - 394 | AI886365, AA808998, AI598003, AW268277, H48546, AW117860, AA365586, AA610255, F32893, AI287964, AA745302, AA664604, AI952786, AA372106, AA310557, AI287921, AI754037, AI859280, AI792421, AL039187, M86058, AW166611, AA779783, F15524, AI014378, F26152, AA381747, AA804925, AI762575, AA574442, T80500, AA342189, AA728937, AA653139, AI452836, AW069450, AA528441, AA076427, AI832865, AI244356, AW383952, AI754689, AI291961, AA569202, AA740403, AI342622, AA579278, AI863399, AA987962, AA837715, AI581486, AI598060, AI471418, AA457754, AW103415, AI016704, H79156, AW189367, AA043218, AC005940, M87914, AC005874, AF134471, AC002565, AC005082, AC007055, AL121657, AC006539, AJ006995, AL132987, Z84480, AF053356, AC007226, AC004522, AL136504, AC007151, AF045555, AL035448, AL035405, AL021918, AC005033, AC005954, AP000031, AL031677, AL049780, AL109799, AC005378, AC006137, AC005625, AL031983, AC007263, AL121655, AC002073, AC006544, AC005740, AC006480, AL080242, AL109627, AP000248, AL022332, AC005914, AC002350, AC005081, AL031846, AP000359, AC005924, AC005913, AC008040, AP000354, AL034421, U02068, AC009498, AL031133, AC003083, AC005520, AP000507, AC004921, AL022237, U85195, AC007041, AE000658, AL080239, AB000882, AC020663, AC004841, AL121934, AF111168, AC002470, AL031985, AC005358, AC007308, AC008033, AL021808, AL003147, AC006023, D00591, AC004527, AL035542, AC005412, AC002996, Z94056, AJ003147, AP000132, AF091512, AS1133, A76958, AF037222, AC004049, AC005288, AP000210, AP000210, AP000132, AF091512, AS1133, A76958, AL031428, AL049589, AC005409, Z97053, AL008635, AC004400, M87918, AC005796, AL031428, AC007225, AC004859, AP000694, AC007848, AF002993, AC006538, AC007536, AC006080, Z83826, AC002492, AL031053, AL031733, AC002558, AL049557, AC005803, AL135744, AP000255, AC003101, AL049697, AL121658, AL022320, AL021978, AC007011, AC004741, AP000152, AC006501, AC005800, AC004051, AL034555, AF205588, U73023, AL133448, AL020993, AL133246, AP000213, AP000135, AC005907, Z69917, AC007057, AL035089, AL133382, AC016025, AL049776, AC004685, AC004882, AC005821, AC007687, AC007388, D86566, AC004686, AP000208, AP000130, AL109984, AL031255, AC007270, AL022578, AC005291, AP000247, AL049636, AC005993, AC003688, AC005971, AC002394, AC006449, AC005755, AP000498, AC005180, AC004019, AC000381, AL049759, AC006055, AL031681, Z82206, AC005764, AC004150, AL034420, AF222685, AC007537, AB020858, AL049694, AC006455, AC005274, AF190465, AL035450, AC004996, AC004672, AC007899, AC003663, AC007686, AC004812, AC000015, AL008726, AC007735, Z49237, AL035413, D87675, Z49236, AC000353, AC004771, AC005215, AF038458, AL035587, Z73496, AL008725, AL031666, Z99570, AC006126, AC002319, AP000319, AP000513, AC006285, AC007707, AC002316, U75931, AC005858, AC004821, AP000512, AC007371, AC004072, AC007993, AC005696, AC006977, AC005513, Z82182, AC007021, and AL022326. |

HCWTS15	1519	654317	1 - 350	15 - 364	
HCWTS84	1520	669926	1 - 348	15 - 362	AB017567, AC005231, AC005911, AL121603, and AC005736.
HCWTT20	1521	669430	1 - 422	15 - 436	AW148697, and N75845.
HCWTT45	1522	576720	1 - 429	15 - 443	
HCWTT47	1523	706527	1 - 342	15 - 356	
HCWTT63	1524	542409	1 - 421	15 - 435	
HCWTT81	1525	712302	1 - 410	15 - 424	
HCWTT89	1526	786693	1 - 393	15 - 407	
HCWTU12	1527	934902	1 - 537	15 - 551	
HCWTU83	1528	780917	1 - 437	15 - 451	AA468131, AI820920, AW303196, AI696962, AL042853, AA493695, AI284640, AA468022, AA507824, AA478048, AW301350, AA478355, AI821670, AW270382, AA478209, AW149313, AI687343, AI873990, AA618452, AW020340, AA857486, AW274349, AI524360, AW302903, AW275510, AI963720, AA568869, AA515334, AI110844, AI369580, AA515549, F12561, AA847952, AI270117, AJ499588, F00107, AI311927, F18164, AI457397, AA541423, AA019312, AA68325S, AA468244, AI305766, AA523838, AA720702, AW021735, AI216990, AA661921, AW275971, AW301995, AA618349, AI247199, AL042753, AA640410, AA640430, AL046725, AA483771, AA515909, AL037040, AI567076, AI925579, AL038606, AA490183, AI345157, AW023149, AA834707, AW075948, AA580808, AA192740, AW303002, AA178953, H70994, AW245747, AW028429, AA584581, AA908687, AW193265, AI801482, AA491650, AW088846, AA719292, AI053911, AA188664, D44638, AL038072, AA588001, AA551552, AI567842, AI821494, AW163293, AI732865, AA724333, AI281881, AA548058, AI064952, AA521323, AA521399, AW440545, H18354, C04454, AA167055, AI133164, AL138455, AA493894, AA631507, AL039145, AA351056, AW340844, AI744826, AI254913, AI056177, AI865905, AA702729, AA780944, AL135357, AA523242, AW264934, AW103758, AW069510, AA491862, AA428792, AA410788, AA747070, AI580250, H23653, AI134957, AC007444, AL121603, AC006511, AC006371, AC005701, AC004987, AC007216, AC005194, AL049874, AL035405, AC007274, AC005242, AL009029, AP000459, AC003003, AL031003, AB020862, AC007376, AF038667, AC009044, AC000353, AC006999, AC009179, AC005004, AC006211, AC005772, AC005884, AC007382, AL031666, AC004903, AL132826, Z98941, AC006336, D83989, AC004686, AC005230, AC004861, AJ239322, AC006998, AC004531, AF001549, AC005146, AC010202, AC004966, AC007666, AC004650, Z98744, AL035448, AC001231, AC007684, AL050318, AC005209, AC006479, AC005026, AL109985, AC006044, AC004858, Z93023, AL050308, AC005330, AP000055, AP000170, AC007270, Z99716, AC005291, AC003692, AC006058, AC004865, AC005768, AC007298, AC004519, U57008, AC005815, AC002299, AC002984, AC006960, AP000962, AL133445, AC005011, AC006004, AL034420, Z82198, AC005358, AC004611, AC007226, AL031668, AC004010, AC000052, AL118510, AL133399, AC005180, AL031429, AC008079, X54179,

HCWTU84	1529	666642	1 - 153	15 - 167	AC002425, AC005968, AC005567, Z82210, U75931, AL022240, AF196779, AP000049, AL023575, AC004945, AL049869, AL132985, AL049829, AL031446, AC004901, AC005787, AC006203, AC007051, AP000311, AC008055, AF165142, AC002402, AL023579, AF091512, AC004879, AC004690, AL096774, AC007488, AC002531, U18392, AL109865, AL122021, AL031681, AC008064, AL121694, AC007685, AC008080, AC004151, AL109847, AC004019, AC008101, AL136295, AL022163, AC005529, AC004741, AC002312, AL022400, AC005921, AC002558, AL109755, AC002378, AL021877, U62293, AF053356, AC004979, AC006512, AL023755, U81831, AC005193, AF090940, U07562, AC000025, U18394, U91322, AB020859, AC006205, AL008633, AC005527, AP000168, AC010072, AC005535, AC005411, AC004821, AC007263, AF042090, AC003982, Z68756, AL079340, AC006039, AL096712, AC003688, AC007919, AC007324, AC005488, AC012627, AC007011, AC002395, AL031281, AC004259, AC004070, AL023284, AC008009, AL031767, AC008119, X75335, AL049795, AL049797, AJ006996, AC012599, AL078603, AC007021, AC005520, AC005154, AL030997, AC004638, U91319, AC005376, X87344, AL031012, AP000693, AC002289, X54181, U67831, AF049895, AC008127, AL121934, AC007308, AL021808, AC010170, AC004972, AC004600, AL031390, AC005084, AL049709, X76666, AC006344, AC002073, X55926, AL035703, AP000088, U157009, AC002350, AC005253, AC009227, AC002564, AL022322, AC004884, AL023879, U95740, AC000111, AC006285, AF015148, AB020868, AC007848, AL049780, AP000959, and AC006530
HCWTV17	1530	725862	1 - 416	15 - 430	AI674544, AA291234, AA284361, AW361644, and AB020718.
HCWTV62	1531	742696	1 - 564	15 - 578	N33991, N84712, N88601, N88782, N89520, AA093224, N84830, AA247964, N84855, N83992, N86694, AA095359, AA247827, N84048, H58760, N84718, N55698, AA096066, N83993, N83168, AA096046, AA471338, AA095641, N88518, N84829, AA093861, AP000528, AP000529, S7879S, AF103726, U48696, AF045432, AF032922, AF102850, AR066487, AF039698, U39066, AJ243486, and AR066480.
HCWTV73	1532	574912	1 - 535	15 - 549	AC006013.
HCWTV88	1533	861846	1 - 543	15 - 557	
HCWT1A19	1534	668355	1 - 399	15 - 413	AL044458, AA610644, H57752, H57751, W27084, AI114772, AI890971, Z99716, AC005180, AL031311, AC006271, AC004883, AC000353, AC007226, Z84469, AC009399, AC005763, AC005015, AL000092, AL031427, AC007993, AC005520, AF111168, AF165926, AC005703, AC006057, AC002461, AC004019, AC004881, AC007666, AL023803, AL050334, AC005011, AC004477, AC007193, AL035420, AC000052, AL031286, AL021707, AC007240, AL109984, AC004859, AC005829, AC005244, AC005940, AC005081, AL049538, AC006449, AC002299, AC004228, U73479, AC006139, AP001068, AL031584, AC008125, AL049872, AL022313, AC007057, AC005231, AC009542, AF053356, AL031678, AC002544, AP000558, AL035423, AJ011930, AC002312, AL002312, AL023284, AC007421, AC002350.

HCWUA23	1535	577964	1 - 407	15 - 421	AC005243, Z95116, U47924, and AL117352.
HCWUA43	1536	715000	1 - 369	15 - 383	AC005837. T07420, D51809, AA769056, AA808064, AA715709, R82432, T03401, AA715507, AA669616, AA632836, AA411741, W39287, W60522, AA445951, AA427808, F10773, AA812542, AA320941, AA745373, AA461274, AA397415, AA513484, N30876, AA577706, N44146, AI819391, AI903464, AA244267, AI249365, AI174489, AI884922, R53995, AA741403, W96522, AA325787, AA601390, AA343014, T41164, AA610381, N27615, AA470567, AA634926, AA907222, AA594179, AA780906, AA078428, AA487720, AA668166, AA774119, C15362, T41132, AA730359, AI252010, AI252880, AI583448, AI903448, AA355128, H29960, AI799421, AA058499, H94979, AA740571, AA648560, AA130855, AA216375, AA508026, R94909, AI671077, AI922298, AI929825, AA206594, AA376358, AW157180, AA663437, N40760, AL135018, AA635413, AA716440, AA594746, AA598740, AA600127, AI866377, M78065, AI038577, AI933478, AA508444, AA010973, R83878, H53109, H52053, N72439, AA532732, AA084439, AA827383, AA351808, AA653503, N73724, AI872073, AW342143, AA745302, AW272389, AA649488, AC006388, AC005081, Z99127, AB003151, X69951, AB020865, AP000300, AP000045, AP000113, AC006509, L13711, AC002401, L44140, AF111163, Z74739, AC004408, AC004616, AL050321, AF069074, AF125348, AC002425, AC005017, Z94056, AC005338, AP000565, AL008707, AP000557, Z98885, AF181897, AL096843, AL031431, AC002544, M84472, AC005514, U34879, U63721, AL021707, AC00024, D87011, AL078596, U91326, AL031664, D88270, AL050404, AP000563, AP000133, AP000211, AC004687, AF012339, AC005514, AL031602, AC002375, AL034450, AL079303, AC005015, AL096766, AL049761, AC005837, L35532, Z68162, AL031657, Z82203, AC008115, AC005064, AC005280, M22469, M18000, AB022537, AP000353, AP000354, U91323, AC005740, AC009802, AP000556, AC004000, L78810, AC031186, AC004583, AC007666, AP000497, AC007510, AL133249, U52112, AP000052, AC005722, AC004019, AR062818, AC005355, AL050332, U89337, AL031672, AL050341, AC002565, AC006146, AC005316, AC005026, AC005011, AC005317, AC007486, AC021092, AC000086, AC006273, AP000228, AP000140, AC006966, AL031005, AC005996, AC004000, L78810, AC005486, AP000088, AF129756, AP000270, AP000032, AP000555, AP000291, AP000256, AC005372, AC005868, AP000098, AP000111, AL034451, AC005208, AC006571, AC007226, AC005846, U17576, AB001907, AF195658, AL023694, AC005543, AL096794, U82668, AL049538, AL035659, Z82195, AC006014, AC004817, Z98044, AL033504, AL121603, AC007993, AC020663, AC005488, AL049780, AC006530, U68061, U95090, AL049856, AC005775, AP000699, AB029020, AP000348, U07563, AL049734, AC004659, AL135744, AL050140, Z99716, AC005602, AL035551, AC004070, AC002412, AL035455, AL035603, AL132800, Z99716, AC005747, AL035089, AC007637, AL135960, AJ131016, AL110505, U52111, AL021808, AC005568, AC005744, M26434, AL035398, AF045555, AP000502, AP000161, AC004750, AC005568,

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HCWUA90	1537	706532	1 - 360	15 - 374	
HCWUB03	1538	923556	1 - 446	15 - 460	
HCWUB08	1539	958770	1 - 392	15 - 406	AI633478, AA652675, AA489390, AL044458, AA693433, AF114095, AI080086, AA630476, AI567976, AI623505, AA369494, T41235, AW162664, AW439455, N24046, AI821287, AA502660, AA502509, AA167178, N70293, AI869094, AW085751, AI014872, AA341391, AA659303, AI821605, AA650288, AI640905, AI625042, AA599712, AA622637, N62478, AL042731, AA507499, AW328185, AI214574, R43468, AA829795, AI690379, AA595661, T62614, AA854460, AA648942, AI500151, AI392771, N92752, AI935827, AI540319, W04238, AA228268, H65404, AI753131, AC005048, AC007964, AL050307, AC004966, Z69650, AC004802, AL078581, AL049843, AC005839, AL050318, AP000497, AL132987, AC005516, AF031076, AL035684, AC004967, Z93931, L47224, L47225, L47226, AC002401, AL031295, AC005288, AC004213, AL022723, AL096716, X59875, AF060911, AC010349, AC004856, L09706, AP000250, Z98272, AC005257, AC005202, Z84721, AP000251, U62293, U63721, AC007536, Z81364, AC003109, Z98051, Z93244, AC005994, AC004874, Z99291, U78027, AC005057, AP000211, AP000133, AP000030, AP000502, AP000065, AL049757, AL035420, AL021393, AL034423, AL008721, AL035458, AL034420, Z98742, Z93017, Z93928, AC002039, AC007845, AL050343, AL035422, AC005343, AC003665, AP000248, U07000, AL024507, AL132716, AL049646, AP001046, AC005137, AL117337, Z98884, AL031584, AP000501, AC016025, AC007686, AL133163, AC005726, AL049779, AC005291, U91322, AC004019, AF205588, AL050323, AC006274, AL133404, Z97183, Z97184, AC004125, AC002504, AC004668, AC002433, AC004962, AL033527, AC004073, AC007879, Y14692, AP000269, AP000103, AP000033, Z97876, AC006162, AL109798, AJ010598, AC005361, AF200465, Z85986, AC004805, X87344, AC004526, AC005681, Z48051, AC002049, AC006125, AC002054, AL049540, AL035588, AL049690, AC002472, AC007664, AC006115, AC008018, AL121652, AL135744, AL049872, AC004000, AC000045, AC005358, AC005180, AB023178, AC003030, AP000152, AP000010, AC005231, AC004850, AC005822, AL049569, AL049776, AF031078, AF209704, AC005484, AF043233, U21936, AR022305, M14949, AF030876, AB007874, M31061, M33764, AC002551, X16277, M81740, X69907, AR007118, AF106656, AL023577, AL031845, U73640, AC005779, AC002103, AC004754, AC007201, AC005175, AC005944, Z81367, AC006167, AC005372, AC000401, AC005937, Z82901, AL049576, AL031321, U71148, AL021453, AC005755, AL133382, AC004776, AC006468, AC004771, Z97352, AL031597, and

HCWUB74	1540	765274	1 - 346	15 - 360	AP000503.
HCWUB83	1541	853008	1 - 434	15 - 448	AA804937, AI554512, AW084364, F03946, AL049761, Z93241, AL049631, AC018633, AC006443, AC004966, AC002045, AC005280, AC005484, AL035450, AC005940, AC005086, AC005562, AL132642, U91318, AL031670, AC006946, AC004217, AC005670, AL050307, AL031577, AL008628, AF047825, AJ251973, AC005305, AC006581, AC009516, AC004967, and Z81365.
HCWUC39	1542	572977	1 - 419	15 - 433	
HCWUC64	1543	588122	1 - 300	15 - 314	
HCWUC94	1544	721663	1 - 487	15 - 501	
HCWUD64	1545	746332	1 - 348	15 - 362	AI902698, AL121235, R76463, AI633479, AI828710, AA679936, AI732120, AA680243, AA478355, AA493894, AA654781, AI873852, AA366312, AL119649, AA018823, F00231, H84435, F00984, AI088768, F05324, AI049508, AL121207, AA618596, AW003867, AA012964, R86218, AA219150, AI536932, C14877, C14616, T84449, AA728990, AC002395, AC005071, AC004656, AC004159, AF038458, AL035405, AC004760, AC010205, AC005409, AC000159, AC005576, AC004983, AC006111, AC006050, Z85986, AC005484, AL121595, U95090, AC004841, AP000365, AF001550, AC004019, AC004253, AC006947, AP000514, AC004084, AC007637, AC006468, AL049781, AL050317, AC020663, AF111168, Z98752, AL034429, AC002404, AB003151, AP000688, AC007308, U73167, U90094, AC005399, AC009181, AL117338, AF200465, AC005619, AL031651, AC006211, AP000010, Z99716, AC007371, AL031311, AC004520, AL080243, and AC005943.
HCWUD83	1546	827340	1 - 429	15 - 443	AI657485, N87188, AA825827, U48697, AJ243486, U48696, AR018815, AF045432, U39066, AL031276, AC004223, and AC004596.
HCWUD85	1547	529221	1 - 282	15 - 296	AC004582.
HCWUD93	1548	574856	1 - 305	15 - 319	
HCWUF05	1549	849929	1 - 213	15 - 227	
HCWUF30	1550	691734	1 - 458	15 - 472	AA585101, AI525431, AI525556, AI540967, AI541374, AI541365, AA585476, Z30131, AI541535, AA585439, AI541514, D61254, T23957, R29445, R28735, T11028, AI546999, AL037436, AL037435, AI541523, AI546891, AI547039, AI525306, AI557731, C16300, T23985, T41289, R29177, AI525316, AI546945, AI526073, Z28355, AI557807, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AL040193, AI557262, AL047219, AI541307, T23888, AL045725, AI525320, AL041140, C16305, AL040119, AL047036, AL040553, AL041292, AL041051, AL047183, AI526140, AL040322, AL041131, AL046330, AL041133, AL041238, AL041142, AL045817, AL040529, AL040625, AL040149, AL043467, AL040510, AL044186, AI557787, AL044037, AL040091,

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AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL043537, AL041577,
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AL040571, AL046914, AL040253, AI142134, AL037341, AL037323, AA585453, AI535639,
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AL045857, AI557799, AI541013, AL041278, AL041168, AL038822, AL045671, AL039744,
AL041246, AL044125, AL041347, AL044529, AA174170, AL046327, AL049069, AI546828,
AL040472, D57491, AL040075, AI546875, AI546855, AL041955, AL038761, AI536138,
AI525328, AL037295, R29218, AI541510, AL045989, AL080031, AI557238, AI526184,
AI541508, AL046147, AI541534, AL042096, AL041210, D55233, AI526187, AL039643,
AL039360, AL037335, AL045211, AL037343, AL079852, AI541345, AI239433, AI526194,
AL037279, D57186, AA585434, AI526196, AA283326, C14723, AI535660, AL043941, AI557727, C16293,
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AI557763, R28892, AI557740, AL134524, Y16359, D78345, AR038762, A25909, AR062871,
AJ244005, AJ244004, AR038855, AF082186, AR062872, AR062873, AJ244003, AR017907,
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I84553, I84554, I00682, A11623, E00609, A11624, E13740, A11178, E01007, A10361, I06859,
I08395, AR043601, A35536, A35537, A02135, A04663, A02136, A04664, A11245, I18895,
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D13316, AJ230972, AB025273, AR051957, AJ231009, A70872, A70869, AR035975, AR035977.

	1551	703804	1 - 313	15 - 327	AC005913, I18302, AJ231028, E17098, I66495, I66494, AR064707, A22734, AR022273, AR035974, AR035976, AR035978, AJ230951, AR054723, AJ230867, AJ230845, I36244, X55486, AR051864, AR018815, AR051865, A06631, S60422, AJ231011, AF045432, AR063812, A24548, U39066, U48696, A24546, Y14219, U48697, I05845, X82786, AJ230996, AJ244006, X76012, I03669, I03668, A16035, AR009152, I33632, AR003381, X99056, I66481, A83642, A83643, I15353, X99052, A68112, A68104, Y16299, X99058, X99051, AF011573, I66488, I66490, I66491, I66492, I66493, A83151, E03654, A05993, and A05975.
HCWUF40					
HCWUF46	1552	656680	1 - 435	15 - 449	AL135783.
HCWUF54	1553	933212	1 - 232	15 - 246	
HCWUF84	1554	686711	1 - 162	15 - 176	AI032481, and AF049579.
HCWUG43	1555	697616	1 - 388	15 - 402	AL035530.
HCWUG59	1556	573548	1 - 396	15 - 410	AL134048, AA248952, AL049742, and AL022240.
HCWUG93	1557	920882	1 - 229	15 - 243	
HCWUH17	1558	662478	1 - 280	15 - 294	AA632445, AI424340, T98279, AA719535, and AC004749.
HCWUH25	1559	677747	1 - 397	15 - 411	AA374775, AI252506, AA643442, AA568298, AI580906, AA834731, H45320, AA223932, AI471887, AA601318, AI016704, AI057350, AA446767, AA643448, AA643444, AA808796, AA643452, AA643454, AA643457, R95060, AA429371, AW169581, T40452, AA501762, H10143, AI205009, AI340641, AA602438, AA090344, H10859, AL039187, AA812094, AI812082, AW265073, AA630834, AL037040, AA341263, AA814778, AA669434, W69364, AA808263, AI298246, AA610491, AI344812, AI932599, AI334464, AW268973, AA528603, AI754661, AA493864, AA664790, AI277226, AC002364, AC005159, Z93018, AC006213, AL049736, Z99716, AC005972, AF015722, AC007541, AB000880, AC004180, AC004517, AP000507, AB000882, AC004534, AC007556, AL117337, AC007052, AL133445, AL023284, AC008033, AL031132, Z98742, AC005548, AF205588, U91326, AC004448, AC007281, AC007542, AL022313, AL096773, Z85986, AC005901, AL021069, AC004042, AC010206, Z69838, AF196969, AC002544, AC005193, AF165926, AJ229041, U57645, Z82181, Z68162, AF124731, AC006537, AL031257, AC004558, AC012627, AL031904, AF015720, AP000511, AP000097, AL049776, AL079339, AP000154, AP000012, AL034370, AP000961, AC006487, AL080242, AL049635, AC009721, AC004968, AL109963, AC005288, AC002036, AC004099, Z93020, AC004257, AL022237, AC003041, AL031659, AC007051, Y11493, AB020715, AC007066, Z98950, AC007879, AC004024, AP000495, AB016897, AL133163, AL031277, AC005152, AB007955, AL031685, AC005203, AC006167, AL031057, AC006027, AL021453, AC002551, AL035419, AC006141, AL109610, AC006167, AL031057, AC006027, AL021453, AC002551, AL035419, AC006141, AC007324, AL022326, AC005153, AC004849, AC008101, AC004821, AC008079, AC007041, AC006538, AC004125, AC005291, AC004933, AL117342, AC005832, AC005531, AL049777, Z86090, AC005498, AC004934, AC002470, AC004227, AC007240, AF064861, AL033527,

Name	ID				Accession numbers
HCWUJH85	1560	752790	1-366	15-380	AC005277, AC006120, AC006070, AC009464, AC009378, AC007032, AL132642, U66060, AC004671, AC005375, AP001136, AL035072, AL049653, AF091512, AC003662, AL022163, Z83838, AL050308, AC008394, AF048990, X83116, AC007917, AB023050, AP000202, AC004799, AC007191, AP000241, AL031662, Z97629, AC007038, AL096799, AP000503, AP000504, AC004519, Z99128, AL020997, Z97192, AL035469, AL022238, AF129756, AL135744, AL133244, AL021940, AC007368, AC004896, AL031985, AC006016, AC005535, AC004477, AC004967, AL022324, AL022315, AC006077, AF130343, AP000143, AC004996, AC006978, AC005681, AL022316, AC006050, AL139054, AF196972, AR038761, AL022476, AC006064, AL118498, AC005257, AL035450, and AP000558.
HCWUJI10	1561	964028	1-390	15-404	AI460103, AA574077, AL049780, AC007055, Z84469, AC005187, AL133246, AL022163, AP000336, AP000215, AC003667, AP000156, AC004841, AL035653, AC005746, AP000014, Z99496, AC009721, AL021453, AC004024, AC004584, AC004616, AB003151, AP000688, and AL049776.
HCWUJI17	1562	662483	1-374	15-388	C14614, AI199949, AI189004, AI963797, AA525071, C75012, AJ010597, AC005730, Z69650, AC005516, AC002465, AC005726, Z82190, AC005406, AC005530, AJ006995, U47924, AC006547, Z94277, AC001551, AC005664, AC005859, AC002350, AC005971, AC006013, AL109801, AL049843, AC000075, Z93244, AC005031, Z98950, U80017, AB023048, AP000511,
HCWUK13	1563	656679	1-378	15-392	AC002347, AL022723, AC007386, AL122003, and AC004477.
HCWUK56	1564	733122	1-443	15-457	AF186189.
HCWUK77	1565	771883	1-513	15-527	AC007681.
HCWUK95	1566	615550	1-266	15-280	
HCWUL03	1567	923572	1-478	15-492	
HCWUL19	1568	668361	1-301	15-315	
HCWUL24	1569	968380	1-413	15-427	
HCWUL32	1570	523358	1-301	15-315	
HCWUL36	1571	849901	1-424	15-438	
HCWUL47	1572	720024	1-513	15-527	
HCWUL69	1573	740373	1-244	15-258	AI657485, N83963, N87188, N83707, U39066, U48696, U48697, AR018815, AF045432, AF011573, AF102850, AJ243486, AF001863, AF061744, X99056, X99055, Y16299, X99058, X99051, Y07542, X99060, and X99057.
HCWUL74	1574	690750	1-354	15-368	
HCWUL83	1575	527566	1-543	15-557	
HCWUN05	1576	928191	1-287	15-301	F35659, AW074398, AA308806, AI499094, AW069807, F31204, AA365347, AI110770, AI914706, AA558697, AI284640, AI471481, AA515128, AA228329, F36273, F19258, AA318652,

T71998, AA729264, AI610159, AA551509, F372286, AA077935, R72392, AA515435, F35113, AA580662, AA593060, AI536555, W60516, AI003172, AA059184, AA362700, AI205126, AI561335, AA584749, N71724, AI742771, F32894, AI830390, AI053672, AW419262, AA559290, AI298710, AI334443, AA340003, AI446601, AA363501, AI963720, AJ015912, AI557323, AI863283, AW264959, AA133986, AI886629, AI561060, AA366035, AA584458, AW264973, AW265197, AA658235, T07451, F26152, AA098922, AA077817, AA366820, AI446464, AI286356, H64777, F29989, AI349874, F28576, AI569086, AI688846, AI110822, AA350859, AA292574, H64560, AA095511, F25135, AA176924, AW337985, AW088058, AL046409, AW166815, AA578141, AI079910, AW193265, AL041368, AA428414, AI350211, AW130799, AI445436, AI890052, AI624698, AA919037, AW193432, AI963786, AL138455, AI281881, AI358229, AI879000, AA535661, AI061334, AI282907, AW188544, AI886176, AI431303, AA434484, AI287528, AW406755, H16048, AA878495, AW238016, AA747472, AL079645, AI365988, AI613280, AW303876, AI064864, AW276827, AA344959, AW406447, T16592, AI951889, AI951928, AI341664, AW339687, AL042856, AI281903, AA775049, AA581914, AL138265, AA973575, AI635272, AW072433, AA605274, AA838309, AW339568, T40338, AA377730, AL120483, AA743956, AA654627, AI761471, AI474713, AI648558, AI216799, AA491814, AA626678, AA745582, AA361344, AJ859251, AA714595, AI871992, F18974, AA652057, AA649642, AA641989, AA856981, AI434706, AI565245, AW406162, F24284, AA669840, AA826032, AI887483, AW175641, N43757, AI287651, AA744074, AA745355, AA744088, AL079935, AI962050, AA557325, W95976, AA837755, AW264969, W95841, AL041690, AI266576, AA557879, AW029038, AA610491, AA733208, AI344844, AA579249, AW327360, AI375710, AI917271, AW408717, AA569187, AA310158, AA228420, AA450199, AA515051, AW270270, AA843450, AI312149, AA229785, AI358343, AI814735, AA745410, AI929531, AI872421, AW162489, AA378623, H92005, AI493634, AI246409, AA177061, AI148277, AI279165, R68874, AI279700, AW022046, AA664535, AI037914, AI270343, AW172727, AA654968, AI003743, AI921649, AL039958, AI653886, N23649, R93061, AA654771, AA125788, N25296, AW236342, F32705, AW439558, R91994, AI890928, AI299050, AI890923, AI904894, AW162049, AA650244, AI890570, AI376100, AL042420, AL120687, AA553436, AI016000, AI053816, AI054246, AF042090, AC008173, AP000556, AP000552, AC007682, AC005815, AC005011, AL109985, Z99495, M87918, AL049562, U34879, AP001172, AL132994, AP000558, AC005592, AL023799, AL096861, AC006367, AP000557, AC009516, AC007285, AC003992, AF148319, Z97876, AC000118, Z93024, Z98172, AC004467, AP000555, AL079340, AL031770, Z82210, AC007537, AC007488, AC006255, AL031428, AL121748, AL031542, Z65382, AC005619, AP000263, AP000100, AC006344, AP000036, AC006143, AF126403, AP000018, AP000159, AC005866, AP000855, AC005030, Z97200, U02058, AC003006, Z84490, AL049845, AL109807, AC002364, AL034402, AL049697, AL121603, AC005495, AL031116, AC004495, AC005412, Z68881, AL034452, AL034452,

| HCWUO10 | 1577 | 861840 | 1 - 480 | 15 - 494 | AL049643, AC006006, Z82198, AL049588, AC004903, AC007151, AC006045, AL031054, AC004893, AF023460, AC008928, AC005856, AF020503, L13713, L13706, L13714, M87916, AC004542, AL035089, AL049869, AC005066, AF077058, AC004861, AC006277, AF181896, AP000095, AP000239, AC006960, AC007632, AL109622, AL110502, X55925, AC007191, AC006323, Z95113, AC004016, AC002379, AC004638, AC006251, AP000402, AC004894, AL080285, AL049776, AL031803, AC007666, X75335, AC006336, AL021453, AF072099, AC006374, AC004184, AC003971, AC006071, AC004111, AC002482, AC006205, AC004466, AC010072, AC006019, AC007099, AC007690, AC005154, AL033381, AC008040, AC005331, AC000052, AC001164, AP000306, AC007114, AP000299, AL023882, AC004799, AP001042, AP001043, AP000047, AC004940, AC006561, AL008709, AL031732, AL118497, AL096774, AF003627, AL133399, AL008728, AC007160, AL035593, AL031777, AC006525, AL132776, AC002864, AC005250, AL031686, Z98043, AL049635, AB020859, AP000045, AP000113, AP000115, AF017257, AL035446, Z82975, AC007043, AC004987, AC004918, AL031276, AC004130, AL031256, AC004222, AC005002, AJ006998, AL049709, AC006315, U80017, AC008962, AL031224, AC004848, AP001038, AL031650, AL022724, AC004931, AC004453, AC004695, AC006195, AL078603, AC004990, AL023803, AC007510, AC004626, AC006213, AC010205, AL031584, AC005912, AC005409, AC009178, AC006305, AP000567, AL133238, AC003986, AC006043, AC005284, AC009891, AC007298, AF001549, AC005069, AC004381, AL034384, AC002523, AC002429, U66059, AC004526, AL078477, AC005084, I51997, U02063, AP001068, AC001157, AL050341, AC006476, Z97056, AC003070, AC005099, AC007262, AC005157, AC009802, U18391, AC007277, AC007773, AL079295, AJ229042, AC005808, AC005251, AC003104, AC000159, AL049761, AC005541, AL109760, AC002401. and AL035458. |
| | | | | | AA584620, AW192373, AI049504, AI917132, AA904211, AI307563, T86119, AI540840, T57767, AA158549, AA829044, AI114704, AI792539, AW272294, AA225406, AI049845, AI636734, AA634786, AW082076, AA491767, AL079894, H71678, AW157005, AI917904, AI244157, AI581486, AI800426, AA528390, AA992126, AI801505, AW237905, AI028510, AA564582, AI270370, T50676, AA158759, AA629836, AA551548, H79308, F33138, AI708005, AA527209, AW028950, AL046519, AW438850, AW438662, AA742815, AW302017, AA714110, F17416, AA570441, AA595661, AA326014, AA297666, F24728, AA468505, AA612727, AI003086, AA657835, AI031759, AA526643, AC006538, AL080243, AF053356, AC002511, AC005722, AL034420, AC005324, AC004797, AC007546, AC008372, AC005015, U91321, AF196969, AC004975, AC006441, AC004787, AL031577, AC006511, AC002350, AC005598, Z98742, AC005529, AC004854, AL022311, Z82245, AC005696, L44140, AL117338, AL035587, AL133353, AC005527, AP000359, AC006057, AP000350, AL031005, Z82184, AL035071, AC006505, AP000359, AF047825, AF196779, AL033392, AC003108, AC005666, AC004876, AC004887, AL109627, AL031683, AC020663, AL031291, AL096791, |

HCWUO81	1578	756978	1 - 439	15 - 453	AC004890, AC005622, AL121655, AC006312, AC005231, AC007934, AI246003, AC004655, AC005086, AL133448, Z93930, U07563, AC004020, Z95115, AP000555, AC007030, AL133371, AL021154, AC004525, AL031774, AC002551, AC007786, AL035415, AC004491, AC005071, Z99916, AJ003147, L78810, AL050318, AC002312, AC005578, Z84476, AC005327, AL109939, AL078581, AL049757, AC002476, AL109984, AC005619, AC008044, AC005412, AC005594, Z99943, AC005088, AL023807, AC000039, AC007917, U63721, AF001549, AC003101, AC006965, AL024498, U85195, AC005288, AL031846, AC005924, AC005081, Z98743, AC006512, AL109623, AF111168, AL049712, AC007637, AF129756, AP001052, AC004832, AL034548, AC006449, Z68273, AL031282, AC005844, AP000557, Z98941, AF124523, AC007421, AL023553, AC006254, AL049869, AF196970, Z98048, AL022163, AL049650, AL049776, AL022476, AC004150, AC002563, AL031283, AC004913, AC007731, AC004777, AC005914, AC005784, AC004150, AC005099, AP000275, AL031255, AE000658, AC002565, AC004257, AP000355, AL031685, AL031721, AF030453, AC005099, AP000275, AC004913, Z99716, AC006536, AC004967, AC006509, AC005755, AC005500, AC006960, AL031311, Z99716, AC003003, AC005971, AP000252, AC004611, AC006050, AC007226, AF024533, AF126403, AC005067, AC006950, AL109847, AC006261, AC004382, AL008715, AL031848, AP000553, AP000105, AP000037, AC004448, AC005049, AC002302, AC004084, AC005399, AC004815, AC007707, Z8S986, AC004448, AC004560, AL034402, U95739, AL021940, AC002997, AC004928, AP000466, AC007283, AC004560, AL035400, AC001231, AC004813, AC006211, Z83851, AL034423, AC004883, AL049653, AL035400, AL022316, AL121603, AC005726, AC004209, AC005874, AP000121, AC006160, AC004755, AL109798, AC007868, AC007011, AC002544, AL049576, AC007240, AC008123, U29895, AF134471, U91323, AL031845, AC007686, AF184614, AC002314, and AC005072.
HCWUP64	1579	746328	1 - 264	15 - 278	AW440373, AW139492, AC004150, Z98747, AC007204, and AC006539.
HCWUQ02	1580	968431	1 - 483	15 - 497	AI657485, AF102850, AF001863, AF061744, AF045432, AJ243486, U39066, U48696, U48697, AF011573, and A70147.
HCWUQ77	1581	719064	1 - 379	15 - 393	
HCWUR43	1582	714529	1 - 542	15 - 556	AI054414, AF001552, AC005209, AC006312, AL022313, AF134726, AL009181, AF109907, AC005940, AL021937, AC002477, Z99716, AC005288, AC004382, AP000553, AF111168, AL022315, AC007227, AP000557, AC004975, D87675, AL034420, AC004922, AL031311, AC004149, AL022320, AC005081, AC006241, U07563, AL031255, AC005067, AC008372, AC004447, AL080243, AL035495, AL022237, AC005696, AC005067, AL031281, AC005300, AC005102, AL031602, AC005057, AF030453, AC004876, AC005565, AL096774, AC004841, AC005264, AC016830, AC005335, AL034423, AC005730, AC003038, AF129756, AC004883, AC006211, U62293, AL133448, AB023049, AC005484, AC005484, AC004531, US9337, AC005088,

HCWUR83	1583	958776	1 - 379	15 - 393	AC006538, AC005874, AF134471, Z73359, AC006449, AC004796, AC006344, AC007216, AC005899, AC002425, AL034417, AL031005, AC004150, AC006480, AC005619, AC006026, AC005089, AC007308, AL049569, AL035681, AP000556, AL049539, AC005519, AF196969, AC005280, AC007686, AL035587, AP000115, AC005193, AC002301, AC007421, L78810, AC003007, Z83844, AC005531, AC007787, AL031666, AL049757, AF031078, AC004685, AC005015, AC004854, AC002375, AL031589, AC005261, AC016027, AC005190, AC002404, AB003151, AP000142, AP000248, AC005377, AC006273, AC005225, AF030876, AC005666, AP000689, AL035249, AC009310, AL035072, AP000305, AC009247, AC004752, AC008101, AC004263, AC009516, AC005670, AL049636, AL021546, AL021155, and AL031662.
HCWUR95	1584	711186	1 - 492	15 - 506	AI361673, AC002094, and AC005955.
HCWUS02	1585	919224	1 - 292	15 - 306	AI914239
HCWUS29	1586	690351	1 - 615	15 - 629	AA165563.
HCWUS63	1587	543330	1 - 445	15 - 459	AI652927, AB002803, AP000241, AF124731, AP000201, AP000097, and AF026199.
HCWUS72	1588	855815	1 - 318	15 - 332	AF097485, and AC005089
HCWUT24	1589	676902	1 - 386	15 - 400	AI653905, H73720, AA080863, AA069022, M78005, AI300507, AL031228, AC006130, Z96641, Z85986, AC005089, AC004106, and Z96498.
HCWUT46	1590	861836	1 - 474	15 - 488	AA122111
HCWUU04	1591	614859	1 - 348	15 - 362	H82979, F00112, AA662982, AI963797, AA516310, AI199949, AI189004, C14614, AA524604, N59038, AC004242, AC007666, AL031670, AL021918, AC004797, AP000346, AL109914, AC004020, AC003667, AC004019, AC005529, AC006449, AF165926, AC004887, AL008723, AL133163, AC007371, U47924, AC005214, Z93023, AC005288, AC006014, AC007055, AC004477, AC007263, U82828, L44140, AL109623, AB023054, AC006547, U80017, AC005664, AL021707, AC000075, AC004081, AC005071, AL031293, AC005031, Z85987, AC005057, AC005752, AC007686, AF205588, Z93017, AC000003, AC004057, AC004929, Z95113, AL008718, AL121652, AC005317, and AL031229.
HCWUU07	1592	861959	1 - 496	15 - 510	
HCWUU16	1593	661570	1 - 307	15 - 321	
HCWUU58	1594	735736	1 - 223	15 - 237	AA525331, AA431350, AA431634, AA705118, AA526092, AA665517, R79654, W92302, AI733660, AI821775, AA225548, AC007372, AC004802, AC004911, AC006277, AC002395, AC004056, AL133289, AC002394, AL031848, AC004832, AC004752, AL049823, AF019664, AL031657, AL035703, Y13901, AL023807, and AB016897.
HCWUU78	1595	574908	1 - 433	15 - 447	
HCWUV17	1596	662485	1 - 340	15 - 354	AI064787, AA669618, AI560413, H82557, AI525319, AF169482, AA525464, AA765736, AA478355, AA974503, AA737432, AI174766, AA610491, AA502866, AA468131, T47970, AW149313, AI866856, AI223604, AW002350, T86545, AI093030, AA846952, AW023389,

HCWUV24	1597	676909	1 - 386	15 - 400	F07743, AA533819, AI377567, AI377556, AI377505, AA808877, H90814, AI334464, AI284640, AI133297, AA702729, AA581903, AA468022, AL120933, AL038072, AL120927, AA516339, AI471887, AA326372, AI344812, AW410400, AI751216, N41888, AW023149, AI333016, AI039584, AW302087, R44116, AW275671, AI200051, AW302080, AI674174, AA299182, AA533303, AI635819, AW103758, AI473475, AI250083, AW080777, AA493975, AW084466, AL042547, AA583229, AL037040, AW268973, AC007688, Z97988, AC002127, Z68287, AL049835, AL078583, AC006480, AC004764, AL021155, AC000004, AC005968, Z82176, AP000159, AC007016, U53331, AF123462, AL008732, AI007702, AF061016, AL024509, AC002453, AF134726, AL049776, AC002470, AL049781, AC007102, AC005215, AP001053, AC005412, AL121655, AC004539, AP000208, AP000130, AL031133, AP000247, AC004805, AL031311, AC005763, AC010849, AC004827, AC004257, AC002309, D87013, AC000065, Z95704, AC007628, AC007308, AL133485, AL132774, AL034379, AC003977, AL022394, AL031391, AL121852, AC006207, AL049872, Z68226, Z83838, AC005880, AL121823, L29074, AC006210, Z83845, AC003083, AC007252, Z93928, Z84490, AC005245, M36917, AC006276, AC006167, AC004541, AB023050, AC004841, AL035668, AL022328, AP000511, AC007030, AC006965, AC007014, AC005829, AC002381, AC004922, AC008122, Z98052, AL109984, AC010202, AF196779, Z83840, AL050341, Z82975, AC003085, AL031228, AL035398, AL031432, X96883, AC005523, AC002395, AC002064, AC006230, AL031575, AL023799, Z93930, AC004703, AL031589, AC003682, AC002395, AC002064, AC006230, AP000962, Z97353, AL135744, AC005516, AC003101, AL031673, X97869, AP000348, AC005512, AC002369, AC007666, AC006531, AF030453, AC000052, ABO14085, AC004187, AC004455, AP000515, AL034399, AC002386, AC007130, AL022069, AC005019, AL050317, AC007151, AL035494, AC007690, AC005695, AL109839, AF084555, AL078585, AC005060, AL035079, AL009029, AP000476, AR060470, U29953, AC004236, AF176915, AC006576, Z94721, AF107885, Z69705, AC004754, AL049699, AC004139, AC005399, AC007934, AC005088, U96629, AP000049, AP000193, Z95329, Z82210, AP000311, Z83843, Z97205, AP000117, AC004925, AL031681, AL034384, Y10697, AL021546, AC007057, AC004034, U89336, AP000022, AC005072, Z93096, AC003688, AC005049, AC006037, Y18000, AF131217, AC008062, AC005519, Z93931, AC007388, AC005919, AC007546, AC004617, AC006459, AC005284, AC005274, AL133246, AC006449, AC004550, AL023553, AC005091, AL021391, AC007090, AC003006, AL035252, AC005484, AP001172, AC004895, AC004882, AP000355, AC005529, U73633, AC005387, AL035402, AL031257, AC004596, AL033518, AL078615, AC002543, AC005242, AL031313, AC005822, AC004216, U85195, AE000658, AC004019, AL080276, and AL031668.
HCWUV28	1598	686171	1 - 552	15 - 566	AL049775.
HCWUV65	1599	676334	1 - 359	15 - 373	T98176, AF111168, and AL020997.
HCWUV76	1600	615554	1 - 337	15 - 351	

HCWUIW01	1601	915860	1 - 493	15 - 507	
HCWUIW04	1602	614844	1 - 340	15 - 354	AA368835, H59296, H96676, H85763, H84047, AW069273, AP000331, AP000057, AP000125, AC004109, AC007687, AF126403, AL035458, AP000688, AC004801, AL035249, AP000687, Z46936, AC005697, AC002425, AC005132, AC005015, AP000039, AF006501, AC005070, Z98950, AC004582, AC007240, AC005887, AC004854, AC004893, AC007535, AL035079, AC007999, AL031729, AP000280, AL031587, AC007637, Z99291, AL049760, AC009263, Z99497, AC007114, AC005871, AP000107, AL031281, AC002472, AL034561, AP000694, AC007664, AB002059, AC007207, and AC004835.
HCWUW55	1603	964086	1 - 538	15 - 552	
HCWUIW58	1604	694016	1 - 348	15 - 362	
HCWUIW60	1605	882383	1 - 378	15 - 392	AC010436.
HCWUIW76	1606	769808	1 - 535	15 - 549	
HCWUIW84	1607	782840	1 - 349	15 - 363	
HCWUIW90	1608	712303	1 - 365	15 - 379	
HCWUIW95	1609	706528	1 - 369	15 - 383	
HCWUIX02	1610	852993	1 - 541	15 - 555	AC005247.
HCWUIX25	1611	614857	1 - 405	15 - 419	
HCWUIX78	1612	773336	1 - 451	15 - 465	W86785, and R00187.
HCWUIY16	1613	661550	1 - 527	15 - 541	AC007708, AC009288, AC008132, AP000550, AP000552, AC007664, AC007325, AC007981, AC008018, AC012330, and AC005815.
HCWUIY19	1614	922920	1 - 1082	15 - 1096	AW189204, H64247, R89015, H73207, H62796, H62711, H73281, H95089, T99705, H77855, H77907, R84881, AA203271, and H64246.
HCWUIY26	1615	681249	1 - 309	15 - 323	
HCWUIY41	1616	711771	1 - 286	15 - 300	
HCWUIY69	1617	615630	1 - 538	15 - 552	
HCWVA18	1618	849894	1 - 350	15 - 364	AI499795, and AW002986.
HCWVA25	1619	754314	1 - 187	15 - 201	N88601, N84855, N83168, N86694, AA095359, AA096066, AA096046, N83993, AA247827, N88782, N83992, N84712, N84048, N84718, N88518, AA095641, N55698, AA247964, N83991, N84830, N89520, AA471338, H58760, N84829, N87898, N87989, N56555, AI243486, U148696, U39066, AF039698, AR066487, AF103726, AF102850, S78798, AF032922, and AF045432.
HCWVA44	1620	716347	1 - 122	15 - 136	
HCWVF94	1621	793533	1 - 659	15 - 673	H57015.
HCWWH59	1622	770274	1 - 438	15 - 452	
HCWWH65	1623	747324	1 - 175	15 - 189	
HCWWH67	1624	772342	1 - 328	15 - 342	AA251067.
HCWWH69	1625	861830	1 - 465	15 - 479	AC002536.

HDCACO5	1626	975255	1-457	15-471	AL134902, AI142131, AL134536, AL119401, U46351, AL119341, AL134527, AL134526, AL119418, U46349, AL043019, and AR054110.
HDCAD10	1627	963330	1-489	15-503	AW272294, AA225406, AI870453, AI635028, AI762528, AI133514, AA565319, AI923451, AI860751, AI923458, AI279417, AI587467, AA133332, AA160563, AI282629, AA877992, AW243793, AI192440, AA528503, AA528574, N64587, AC007371, AC006241, AC005081, AC004125, AC005696, AC005015, AC007363, AF001548, AL023575, AC005189, AL022323, Z99716, AL049760, AC006511, AC006441, Z95114, AL049569, AC005082, AC005011, AC002288, AC005874, AF134471, AB026898, AC002404, Z85986, AF196970, AC009516, AC002477, AC004905, Z99128, AC005529, AC006965, AC005921, AC007878, AL139054, AL022313, AL109984, AC007285, AL035071, AL034420, AC002314, AC004813, AL022320, AC005839, AL050307, AC006958, AC006312, AB023048, AC002352, AC007055, AC005280, AL021807, AC004882, AC005089, AL049872, AC004491, AC005484, AP000044, Z98941, AC004895, AC004531, AC006121, AL136295, AC017773, AP000697, Z83840, AP000098, AC005409, AC008009, AL035703, U62631, AC004782, AC000378, AP000209, AL049829, AC004686, AP000112, AC002425, AC005578, Z83844, AL022326, AL049832, AL049780, AC005231, AC004910, AC005527, Z97053, AL031311, AC007327, Z83847, AF067844, AC006480, AC004983, AP000696, AC004903, AC007938, AC005697, AL132777, U47924, AC004805, AL031657, AP000248, AF002223, AC004067, AC005943, Z93016, AL096773, AC004966, AL117337, AC005086, AC005237, AL031848, AC005516, AC005755, AC007182, AC005412, AC003695, AL035209, AC006946, AL021707, AC004655, AC008038, AF196971, AC005519, AL049643, AC007225, AL023284, AF001549, AC000026, AC006512, AF181896, U91322, AC002546, AC003108, AC005520, AL009181, AL049576, Z82244, AC004659, AC004797, AC003962, AC004099, AC004098, AF045555, Z81365, AC010200, AF205588, AP000694, AP000568, Z98946, U91326, AC004854, AC004033, AL034379, AC004821, AP000692, AL031670, AL049776, Z49208, AC000025, Z85987, AF030453, AC005255, AL122020, AE000658, AL031597, AC005537, AL022336, AP000086, AL133245, AP000313, AC004967, U91321, Z98304, AC007637, AC006597, AF047825, AC005971, AC002070, AL022401, AC004743, AC006064, AC005088, Z84469, AL021939, AC005207, AC007193, and AL096766.
HDCAG86	1628	852970	1-389	15-403	
HDCAP64	1629	922818	1-343	15-357	
HDCAV79	1630	881404	1-483	15-497	AL035541.
HDCAY54	1631	959750	1-430	15-444	
HDCBO38	1632	961931	1-214	15-228	
HDDMA83	1633	926991	1-759	15-773	AW371972, AA885936, and AF038963.
HDDNY79	1634	933804	1-443	15-457	AL049569.
HDDOC53	1635	934157	1-879	15-893	AF150417, AI888578, AI826769, AW327712, AW168059, AA628915, AI884992, AA761358,

AI707839, AI382085, AI359894, AA224907, AA234724, AA548422, AA548421, AA234791, AA831987,
AW268716, AW404640, AI344460, AI933178, AA548402, AI826730, AW172286, AA224806,
R69361, AA961626, D20106, AA028112, AA028111, AI421970, AA455772, N39304, AI263331,
AI494201, AL043168, AW022102, AW044029, AI923989, AL040161, AI538885, AI440263,
AI345347, AI744923, AW088134, AL038778, AW084056, AL119457, W81248, AI312428,
AI307569, AL121270, AW148478, AI889168, AI366992, AI002285, AW268072, AW075084,
AI310925, AI334884, AL037030, AW131428, AA572758, AA493923, AI343091, AI349226,
AI345397, N49165, AL041150, AI468959, AI567582, AI884415, AA420722, AL079794, N29277,
AL119863, AI683860, AA983883, AI254226, AI348917, AI696626, AL119511, AW059828,
AW411310, AL046463, AI859464, AW089572, AW020710, AI349957, AI281867, AI554821,
AI267185, AI829927, AI800159, AW161579, AI345005, AI631216, AI251485, AI961589,
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AL047344, AI609911, AI436429, AI49998C, AI915295, AI345745, AI349256, AI312152,
AL134259, AW269097, AI885989, AI587121, AI349933, AI312399, AI345608, AI349937,
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AI336513, AI312325, AW071395, AI340659, AW071377, AI345736, AI348895, AI307494,
AI336495, AI918554, AI340644, H89138, AA805751, AI340627, AI281782, AI349930, AI309443,
AI349622, AA600801, AW071380, AI307520, AI582871, AI498579, AI889147, AI340664,
AI310592, AI611723, AI282355, AL047042, AI348962, AI345739, AI345674, AW075207,
AL036664, AL040586, AI312143, AI345471, AI343037, AI349637, AI345735, AI868163,
AI310927, AI267532, AI559752, AI566974, AI307578, AI824375, AI345111, AW020693,
AL042544, AI349955, AI312210, AW075093, AW055252, AI312432, AI310930, AI345114,
AI312271, AI312357, AI307210, AI345224, AI336662, AI345156, AI345253, AI589267,
AI277008, AL036802, AI311159, AI648408, AI600536, AI289542, AL119836, AI955906,
AW151136, AI313320, AI310575, AW089689, AI570966, AI312237, AI679959, AI313352,
AI251221, AW022682, AL040694, AL036772, AL036718, AI307503, AL036396, AL138406,
AI311892, AA012905, AI950664, AI307736, AI340519, AI802372, AW089275, AI340603,
AI623736, AW020095, AI349814, AI285419, AI349266, AI334452, AI349787, AI307542,
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U77594, AF065135, Y11587, U68387, AF146568, AL080124, A08908, AL049430, L31396,
L31397, I89931, S61953, I49625, AF113694, Y16645, I33392, AR068753, S77771,
AL117394, S76508, AL122123, I89934, Y16645, I33093, AF118090, AL137648, U78525,
AR038854, Y10655, AI8777, AL133093, AF089818, AL137529, AL110171, AF003737,

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HDLAC80	1636	799887	1 - 302	15 - 316	AL035461.
HDLAD61	1637	775541	1 - 388	15 - 402	D82449, AA079011, W15176, D82382, D82521, AF077040, and AF073344.
HDLAH25	1638	796174	1 - 323	15 - 337	AA404215.
HDLAK03	1639	923285	1 - 201	15 - 215	AL047643, AI499503, F32724, AA715268, AA683031, AI744739, AA641103, N48131, AI923140, AI341664, AI061591, AJ114660, AW157326, F36273, AI890928, AI890570, AA362700, AA847216, AI914706, AA364567, AA551509, AI307201, AW074398, F35113, AA515051, AA658235, AI613261, AI205126, AL041706, AW021857, AI553983, AA715362, AA669416, AI608626, AA484148, AA443065, AA578961, AA715270, AI445117, AI955123, F19258, AI624698, AI143242, AA354507, AI471572, AW193265, H64777, AI709365, W03190, AL079683, H04821, AI510838, AA514737, AJ792287, AI310138, AA580662, AI149915, AW340922, AI432270, AI264743, AA328591, AA330772, AI051551, N43757, AA630352, F28576, AI937850, AI569086, AA973575, AI358343, AW341892, AA548137, AA318652, D58782, AW337985, AA450199, AA878495, AA458804, AI079910, AW130799, AI921649, AI445436, AI890052, AJ963786, AA569306, AI880168, AI376100, AL079645, AA601270, AW265654, AI379719, AI110770, T06556, AW074059, AI356904, AI922654, AI564284, R44592,

AL042856, AI284640, R79496, AI570138, T56067, AI557323, T63104, AA834450, AW406659,
AA526755, N54179, AA344959, AA225201, AI732498, AI160117, AI859251, AI802526,
AA226364, AI708009, AI850742, AI471481, AA985038, N69962, AL138265, AI003172,
AI719014, F31204, AW188544, AW302117, AI904894, AF150152, AL036523, F33511,
AI349874, AW276827, AI334435, AA317973, AI446464, AA308806, AI565582, AI635818,
AI287564, AW439839, AL042771, AA515128, AL041368, AI679379, AI499094, AI888405,
R13151, AI287528, AA369477, AI679888, N41759, AI252085, W60516, AA557879, AI252114,
AP000155, AP000013, AC006050, AL133371, AC005053, Y18000, AC012056, AC004810,
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AC010170, AL110505, AC004806, AC007695, AP000555, AL078621, AC004755, AC003678,
AC003689, M13254, AC003104, AC004682, AL031720, AC004675, AC007402, AC005694,
AL035562, AC005527, AL033525, AC004492, L34162, AC007731, AC007537, AC005500,
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AC006948, AC005785, AC006116, Z99774, AC007064, U62317, AC005358, AC005726,
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AJ239321, AC005152, AL034452, AL031662, AB020876, AC005969, AC005969, AC016025, AC007225, AC006004

HDLAN36	1640	923478	1 - 85	15 - 99	AC018633, AC005951, AC002553, AP000553, AL110502, and AL023879.
HDLAO27	1641	787084	1 - 422	15 - 436	AI581067.
HDLAQ50	1642	723854	1 - 307	15 - 321	
HDLAR24	1643	943930	1 - 305	15 - 319	
HDLAV29	1644	922276	1 - 393	15 - 407	AI220255.
HDLBB03	1645	923286	1 - 327	15 - 341	AF162761.
HDMAQ15	1646	941282	1 - 1134	15 - 1148	AI141684, AA242853, AI281834, N50984, AW014432, AA826047, AA977801, AA984041, T64272, AA99420S, AA252172, AI361098, T64144, AI280735, AW084330, AA931748, AW071613, R09320, AA448980, AI990634, R09211, AW388104, AI147841, AI198101, AW238793, AI627898, AW074546, AW072130, AI276023, AI394689, AI457707, AI953242, AI539262, AA947158, AA150147, D44958, AA034918, and AC004126.
HDMBH76	1647	883212	1 - 1214	15 - 1228	AA584604, R17976, and AA297873.
HDMBK12	1648	968954	1 - 424	15 - 438	
HDPAA89	1649	693445	1 - 501	15 - 515	H51802, H67354, T67670, AA700794, AB029488, and AC002536.
HDPAB03	1650	924124	1 - 356	15 - 370	AL078600.
HDPAD22	1651	674560	1 - 470	15 - 484	AI492865, AA836291, and Z59212.
HDPAE86	1652	709072	1 - 505	15 - 519	H49713, and T87022.
HDPAF70	1653	881626	1 - 452	15 - 466	
HDPAG03	1654	771636	1 - 216	15 - 230	AC005946, and AC006272.
HDPAG32	1655	947832	1 - 627	15 - 641	
HDPAH10	1656	969041	1 - 516	15 - 530	T97458, AA704961, AA704993, T97730, R09226, AI097092, AI264637, AW440517, T97914, AA203274, AA045417, AA127626, AA308065, T96809, F22528, AA304050, AA082078, AI087224, W39584, AI042559, N32836, AI289816, AI333981, AAS13903, AA121528, AA716353, AA302332, AI805206, AA677140, W44935, AI208270, AA112905, AI024761, AI087291, AA448463, AA101212, AI685445, AI094396, AA932240, AA331180, AA062780, N42284, AA045311, and AA973273.
HDPAQ24	1657	677179	1 - 425	15 - 439	AF223944, AF110330, and Z61018.
HDPAS40	1658	860041	1 - 567	15 - 581	AC003004.
HDPAV74	1659	916457	1 - 396	15 - 410	
HDPAZ46	1660	719024	1 - 434	15 - 448	
HDPAZ73	1661	756742	1 - 496	15 - 510	AI734217, AI830204, AI764987, W20302, AA328526, AI344107, AI668657, R54083, AA334776, AA151813, AI921148, AA815201, AA386170, AA122312, AJ361541, AI284342, AA071290, AI284343, R60683, AA399256, T36239, N23786, T65297, AA779556, AA425224, AA350782, AW004629, AA888883, F02683, F10790, F03793, R41712, H29594, N46213, R39944, R40964, R48971, R44252, R44573, R50366, AF182814, and AJ243721.

HDPBC24	1662	1-340	15-354	AI401449, AA075859, D26362, AC000391, and AC002323.
HDPBD79	1663	1-159	15-173	
HDPBJ94	1664	1-810	15-824	AI003449, AI970509, H23104, N45556, AL040461, AI216366, AA927218, AA912892, AL078614, AL137712, and AL109748.
HDPBM64	1665	1-397	15-411	AA296462, AA223692, AB023188, Z54728, and Z54729.
HDPBO71	1666	1-301	15-315	
HDPBS54	1667	1-2050	15-2064	AI721185, AI066646, AA700943, AW023111, AW070532, AI249997, AI471476, AI362442, AI357628, AI955029, AI305547, AA663074, AI755202, AW089016, AA502207, AL039042, AL039041, AA721722, AI061313, AW028950, AL042373, AA837035, AA602906, AA569402, AI821044, AC005015, AC009501, AC005228, AC004878, AL096701, AC007193, AL049540, AC004813, AC002997, AL021937, AC005914, AC004897, AC005562, AC002381, AL117258, AC005088, AC005747, AC004832, AC006285, AC002544, U80017, AC007308, AC005592, AL034548, AF200465, AC007199, Z86090, AC007546, AC005921, AL021393, AC008033, AL133246, AC006312, AC002316, M63796, AC007226, AF111169, AC006597, AF196779, AC004883, AC004125, AL049843, AL121652, Z93023, AL035249, AL078581, AJ010770, AC004912, AC007227, AC004999, AL049779, AF196969, AU096774, AC005082, AC005031, AL035587, AP000304, AL035413, AC004554, AC004806, AC004686, AF196971, AC002115, AC004796, AC005873, AC007052, AC006948, AF124523, AL121653, AP001054, AC004638, AC006241, AC005102, AC004587, AL022097, AC005786, AP000509, AC005081, AC006430, AC007540, U07000, AF107258, AL133448, AC004223, AC010205, AC006211, AC003109, AL049697, AL121595, AC005412, AL049757, AL117328, AC005844, AC008101, AC005722, U95742, U63721, Z99496, Z83840, AC003963, AC000134, AC000392, U62292, AC005696, AF053356, AC003684, AP000047, AL022318, AL049712, AC005409, AC007011, AL049766, AB023051, AL080243, AC005280, AB023049, AC004953, AF001548, AC004881, AC005500, AC004216, AC004520, AL024507, AC002400, AL022311, AL109801, AC005776, AL133353, AP001053, AL022329, AC006509, AC005209, AC004973, AC004991, AC007731, AC004989, AC007999, AC004263, AC016830, AF121781, AC004383, AC008055, AC005695, U96629, AP000513, AC002091, AC000092, AC004910, AF111168, AL022313, AL049795, AC005920, AC007298, AC002073, AL049650, AL031659, Z98884, AP000115, AC000353, AC003663, AC005089, AL031282, AC004671, AC004025, AL049569, AC006530, AC007041, AC007934, AC007637, AL049869, AF109907, AC005519, and AC004551.
HDPBW10	1668	1-460	15-474	AL045848, AA582554, AI832000, AI292085, AI264046, AI251024, AI446205, AW270768, AW008074, AW149975, AI291017, AW302709, AW277174, AW236235, AA219651, AI078409, AI803915, U91326, AC002544, Z93942, Z83826, AP000105, AP000037, AC008063, AC009399, Z93931, AL031286, AI229042, AL133243, AP000092, AC003962, Z83843, AC004386, AL031728, AC005239, AL021154, AP000150, AC006123, AF107885, AP000009, AC004202, AC002310, AC007565, AL022316, AL022318, AC007684, AC007676, AF047825, AL020997, AL049776,

HDPBW26	1669	670345	1-240	15-254	AC006241, AL132712, AC003025, AF139813, AC004228, D86991, AC005304, AC002045, AF010238, AL049712, AC002418, AC010170, AC005324, AP000518, AC007528, AC004477, AP000008, AC004024, AC006515, AC000052, AC007129, AL078581, AC002553, AC008372, AP000704, AC006487, Z82900, AL022314, AB023054, AC004019, AL121748, AP000694, AC005620, AC002996, AC003035, AC004859, AF020515, Z83732, AC004011, AL031846, AC005207, AB001523, Z98752, AC004148, and AP000065.
HDPBX82	1670	779848	1-533	15-547	AC007172, and X84692.
HDPBY23	1671	858345	1-505	15-519	AI478349, AI624865, and AC005336.
HDPCC48	1672	709005	1-423	15-437	AA004919, C16939, AW301353, and T06985.
HDPCH65	1673	950716	1-493	15-507	AA284452, and AL135744.
HDPCK27	1674	683383	1-450	15-464	
HDPCK66	1675	766231	1-432	15-446	
HDPCM35	1676	973352	1-455	15-469	AL096805.
HDPCN22	1677	927838	1-610	15-624	H81040.
HDPCN94	1678	794275	1-753	15-767	AL122086, AF120323, AB022915, AF120324, and AF121102.
HDPCR34	1679	852871	1-327	15-341	
HDPCS43	1680	714479	1-299	15-313	
HDPCV60	1681	720278	1-846	15-860	AI762468, AA039789, AA039790, AI040678, AW044237, R69130, W80467, R69248, N69997, R66283, R79969, R80067, R66282, R08901, and W80576.
HDPCW90	1682	612234	1-427	15-441	T86522, R05896, and R01279.
HDPCY03	1683	924057	1-455	15-469	
HDPCY43	1684	958157	1-468	15-482	AF118808.
HDPCY93	1685	571375	1-431	15-445	N44631.
HDPDI78	1686	773556	1-362	15-376	AB014599.
HDPDJ24	1687	677166	1-376	15-390	AF150205, R94203, and AF161539.
HDPDJ90	1688	735027	1-442	15-456	AI940403, AC005363, and AC005606.
HDPDL62	1689	691647	1-647	15-661	AA573618, and U81831.
HDPDL79	1690	774943	1-570	15-584	AW177005.
HDPDN08	1691	959332	1-927	15-941	AA216672, AA078092, AA829049, and AC007444.
HDPDQ46	1692	719010	1-449	15-463	AA808002, AA467766, AC007276, AL031650, AL096861, Z84480, AC002525, AL031575, AP000569, and AL035073.
HDPFC15	1693	745045	1-195	15-209	...
HDPFF07	1694	974494	1-798	15-812	AB033030, and AF151363.
HDPFJ21	1695	852824	1-376	15-390	AL034555.
HDPFQ93	1696	772456	1-373	15-387	AL049766.

HDPFVS5	1697	1 - 544	15 - 558	AA833892, R84376, and AA382114.
HDPFW80	1698	1 - 495	15 - 509	
HDPFY90	1699	1 - 353	15 - 367	
HDPFZS8	1700	1 - 515	15 - 529	AW404640, AF150417, AL023653, and AL049683.
HDPGB73	1701	1 - 355	15 - 369	AL134096, AB018413, and AB011143.
HDPGG28	1702	1 - 446	15 - 460	
HDPGH27	1703	1 - 315	15 - 329	AA362688, AA362690, AA362689, T29199, AL044652, I07209, I07249, AR068508, AR068510, AR067734, AR067731, AR068509, A63954, I09267, I09270, I91969, I09268, I09269, A49701, I09252, I09251, AR067732, A29109, A32111, I66495, AR068550, A23373, AR068551, I66494, E01324, I08638, A94048, A94061, AR035224, A94046, A94054, A49045, I58322, I58323, I66498, I66497, I66496, I66486, I66487, A27169, A27170, A39929, A83151, AR038307, AR038321, AR051528, AR051547, AR051537, AR051524, and A42964.
HDPGII4	1704	1 - 432	15 - 446	AI018392, AA576672, H84975, AI929768, AW157282, AA599045, H77773, AA847622, AA828053, AA826320, AA598731, AC003982, Z84466, AC005102, AC003665, AC002350, AF126483, AC004752, AL022238, Z98257, AC005105, AL135783, Z98742, Z86064, AP000289, AP000042, AP000110, AC007537, AC005581, AC004685, AC005015, AB020868, AC006581, AL080243, AC004000, AC004797, Z82976, AC005971, AC006026, AC005280, AC005736, U47924, AC001234, AC004526, U93305, AL031905, Z83822, AL049874, AL023575, AF060568, AL022717, Z84487, AC006241, AC006011, AC007671, Z99916, AL031673, AP000350, AC005886, AF001549, AL049631, AC005031, U80017, AC007193, AC002477, AC005932, AC002470, AF198095, and AF091512.
HDPGI21	1705	1 - 340	15 - 354	
HDPGJ95	1706	1 - 443	15 - 457	
HDPGL65	1707	1 - 515	15 - 529	
HDPGM85	1708	1 - 451	15 - 465	
HDPGO30	1709	1 - 408	15 - 422	AA287508, W15561, and N80792.
HDPGOS2	1710	1 - 422	15 - 436	
HDPGP54	1711	1 - 669	15 - 683	AL031123.
HDPGP75	1712	1 - 409	15 - 423	AP000172, AP000057, AP000125, and AP000330.
HDPGT43	1713	1 - 547	15 - 561	AI700109, AA468022, W60328, AC002470, AC005529, AC005666, AF055066, AC009516, AF053356, AL096791, AC007308, AC008715, AC005940, I47924, AC005071, AC004638, AL022238, AC005690, AC005057, AL008715, AC005527, AC004263, AC004814, AC007919, AC005387, AC005829, AC000353, AF045555, U95740, AC005695, AF207550, AC022724, AC004156, AL031587, AC004921, AC009044, AL031295, AC005914, AF165926, AC007066, AC002378, AL136295, AC012627, and AC005694.
HDPGU50	1714	1 - 330	15 - 344	

HDPGX44	1715	683277	1-454	15-468	
HDPHB75	1716	915912	1-127	15-141	
HDPHF59	1717	677172	1-211	15-225	
HDPHG23	1718	416041	1-312	15-326	AW408850, AW408705, AW407627, C18204, AW401857, AL031733, and AL137762.
HDPHG42	1719	732133	1-602	15-616	AC005005.
HDPHG89	1720	733198	1-588	15-602	AA447601, AI769676, AI052170, AI383501, AA416632, T99484, AW237237, AA652361, AA652166, AI202729, AA115105, AA356475, AA828854, and AC005156.
HDPHH51	1721	921093	1-471	15-485	
HDPHI02	1722	919825	1-448	15-462	
HDPHI71	1723	760325	1-391	15-405	
HDPHJ36	1724	706624	1-301	15-315	
HDPHK96	1725	921957	1-815	15-829	AA654874, AI380617, AA780933, AW243945, AI355080, AI148557, AA564582, AI718462, AA445908, H73550, AA678616, AI683116, H67649, H48768, AA405549, AA297789, AA086257, AA936718, AA078754, AA599532, AL041682, AI924207, AL042230, AI912401, AI816058, AI732911, AA320105, W04168, AL041681, F35551, AW051819, AI858889, AI053784, AI569401, AA584207, AA878407, AA904211, AI270647, AI061166, AA128969, H97379, AA669054, F31867, AA070330, AA558404, AA493947, AA302982, AI955360, AA471013, AA550757, AA345594, AA715955, AI053688, AI671077, AA425924, AI678992, AI792521, F32040, AW078821, AA572753, R99613, AW390284, AI347665, W81372, H68191, F25666, AA644223, AA460910, AI697425, AA581498, AA586433, F35674, AI472736, AI819262, N40092, H67064, AA019973, AA745552, AW440568, AA635413, AA013168, AI198718, AA460920, AI557422, AA678932, AI818545, AI753887, AA344768, AW081610, AA721523, AA461212, N86362, AI866580, N67313, AI701059, AA513884, AL134440, AI570237, AI620354, AA461223, AI889995, F35684, AA058312, AA420723, T17384, AA804334, AI133514, AA126814, AL040521, AI370841, AA831913, AW419389, AI114557, AW275432, AA640310, AA515351, R93919, AL118912, AA652830, AI889579, N58505, AA487300, AW079737, AA601237, AA102737, AA249239, AL044177, AI002709, AA626595, AL121287, AI813783, AA568314, AA355128, AW019964, AL045423, AA504951, AA804297, AW023111, AA583132, T17332, AA551056, AA609826, AC009826, AL031984, AL022330, Z94160, AL133500, AC004032, AC002563, AL031775, AC010582, AL033380, AC006948, AC006276, AC004125, AC008119, AL031432, AC006023, AL031279, AE000662, AC006120, AC004111, Z83846, AL035682, Z98742, AL078638, AC002070, AL133244, AC004943, AL021939, AP000327, AC003108, AC006511, AC008149, AC007684, AC006241, AL021546, AC002303, AP000123, AP000055, D84401, AL132826, AL035588, AL031228, AL049911, AL022576, AL121578, Z70289, AR036572, U91328, U93305, AL049832, AC004601, Z97053, U52111, AC005220, AC002375, AL022721, AC004593, AC003683, Z95115, Z98048, AF196779, AC004820, AC007221, Z92542, AC005969, AC004465, AL050317, AC005495, X51956, AL117694, AC006512, AP000075,

Clone	No.	ID	Range	Range	Accession Numbers
HDPIA15	1726	772020	1 - 588	15 - 602	AC006390, AL022238, AC005215, AC007263, AL049749, Z84480, AC005684, AC002115, Z81008, AC002350, AC005355, AC006361, AL031728, AC006125, AC005487, AC007388, AL031311, Z94055, I147924, AP000496, AC005209, AL020998, AL109758, AC003684, AP000114, AP000046, AC010200, AC003965, AC005379, AL079333, AF196969, AC005225, AC005219, AC005726, Z85996, AC005187, AF015416, AC008989, AC004049, AL035703, AC007151, AC005288, AC005625, AC010206, AC005553, AC007225, AF128893, AL109750, AP000049, AL031427, AC007663, AC006057, AL022332, Z69652, AJ012008, AC005061, AC007934, AP000311, AC007387, AC003665, AL132796, L31948, D87022, AC004663, AC006600, AL031055, AC004854, AL121588, AL022726, Z69922, AC005514, U63312, AL022395, AC002112, AL132800, AL031121, AL009172, AL117258, AC007279, Z82176, AC004963, AC006205, AC006039, AF047825, Z75407, AL049692, AL049570, AC002073, Z83851, AC007201, AC007358, I144106, AC007617, AC002045, AC005546, AP000504, AC004997, AC002481, AL035462, AC007649, AC004651, AC002314, AC015853, AL031587, Z93242, AC005324, AC004832, AL022069, AC010205, AC007540, X15943, X68793, AF199339, AL023879, AL023883, AC006536, AP000701, AL031258, AP000115, AC005081, AC000003, AL031289, AC005585, AC005939, AL022313, AC004923, AC002455, AC005094, AL135746, AL009181, I34294, AC005391, AF030453, Z84487, AP000304, AC005049, AC005690, AC005728, AC005015, AL022326, AC003010, U73169, AL031665, U93036, AC002385, AI011931, AC005284, AC004019, AC005082, AC006480, AC007023, L43411, AL035416, Z82244, AF111169, Z93023, AF024534, AC004257, AC004760, AC004262, AJ239318, Z84474, AC005839, AL031664, AC004821, and Z70288.
HDPIC37	1727	954869	1 - 680	15 - 694	AI635582, and AL049766.
HDPID10	1728	928163	1 - 547	15 - 561	AI470828, AA888031, AL120421, AA229902, AA281976, AA204701, AA424801, AA410294, AA435831, AA397595, and AB002334.
HDPID37	1729	868169	1 - 554	15 - 568	H78846, R97122, AA331528, T85509, AW362954, AI193875, AW362978, AI193991, AA699647, AW362953, AI033788, AW363023, and AC005412.
HDPIE42	1730	713081	1 - 389	15 - 403	
HDPIF86	1731	591540	1 - 488	15 - 502	AL120078, N28989, AA206257, AW378916, AL117258, and Y18483.
HDPIH48	1732	677664	1 - 511	15 - 525	AL022316.
HDPITP26	1733	681519	1 - 515	15 - 529	T84946, AL047527, AL047528, and AC002394.
HDPIQ55	1734	961163	1 - 458	15 - 472	T81944, T79115, and H63342.
HDPIQ65	1735	747791	1 - 426	15 - 440	AI732675, AA469134, and AA420876.
HDPIT53	1736	926498	1 - 371	15 - 385	
HDPIT61	1737	741724	1 - 408	15 - 422	AC004126.

ID	No.			Accessions
HDPJA04	1738	628745	1 - 318	15 - 332	AW245495, AL046917, AW402628, H91107, AR012155, AB018357, and AB026628.
HDPJA26	1739	767110	1 - 455	15 - 469	AW161353, AW161055, AF150432, AL136504, AF189723, AF181121, AF181120, and MP3017.
HDPJB08	1740	921453	1 - 403	15 - 417	AA905416.
HDPJI05	1741	911170	1 - 2858	15 - 2872	AI928173, and Z95115.
HDPJK06	1742	852781	1 - 438	15 - 452	AI928173, and Z95115.
HDPJK73	1743	765446	1 - 403	15 - 417	
HDPJN68	1744	752907	1 - 314	15 - 328	T34282, T18874, AA983199, AI491817, AA579179, AA630672, AA010299, AI818231, F05641, AA425118, R12156, H15474, AI207363, AA513893, AL041373, AL041526, AL041527, F13380, AA410788, AA584170, AW022608, AI733856, AI056177, AA506744, AC005411, AC002431, AC009516, AC006552, AC006390, AL031432, AC004983, AL031283, AC005046, AC005953, AP000348, AB000931, AL035420, AL049830, AC006501, AC005756, AL031279, AB009667, Z83845, AL022237, AC004841, AC006312, AC005800, AC004812, AC002550, AC006313, Z69706, AC004534, AL078638, AL117694, AL022316, AC005071, AC002549, AC002070, AC006012, AC005305, AC012384, Z83856, AC003029, AL031466, AC007842, AF088219, AC012627, AC004675, Z84469, AC005759, AC006117, AC006480, AC002996, Z84483, AL031680, AC005837, AL133396, AL122020, AC005412, AC006120, AC005703, AC008975, AC004985, AC003080, AC005670, AL137191, AB023049, AL031591, AC006371, AL023913, AC002525, AF114156, AC005520, AP000281, AC004552, and AC007435.
HDPJQ40	1745	711003	1 - 359	15 - 373	AA578690, and T05118.
HDPJP32	1746	918630	1 - 476	15 - 490	AF104015.
HDPJP79	1747	538038	1 - 465	15 - 479	AI110883, and AC002476.
HDPJR11	1748	965011	1 - 329	15 - 343	AW204366, AA865368, AA442937, AA436769, and AW197446.
HDPJU86	1749	785391	1 - 743	15 - 757	AI703393, AI656220, AI457528, AI214558, W15512, AA888880, W39617, AA995374, N56658, AI202894, N47548, AI916559, H06953, R54815, R45929, R45928, T27096, AI203071, AA782845, Z41377, F04514, N30325, and N47547.
HDPKD52	1750	959653	1 - 1159	15 - 1173	T20100, and AC003070.
HDPKD82	1751	778970	1 - 374	15 - 388	
HDPKJ40	1752	710991	1 - 355	15 - 369	
HDPKK25	1753	677921	1 - 551	15 - 565	AL031668.
HDPLB25	1754	965139	1 - 430	15 - 444	H47933, N99775, AW391235, and R58738.
HDPLC45	1755	909091	1 - 816	15 - 830	AI445866, AI816830, AA639828, R41845, AA258158, Z41214, H06057, F02752, T11904, and AL050333.
HDPLC60	1756	740144	1 - 382	15 - 396	
HDPLD11	1757	966610	1 - 430	15 - 444	AL120898.
HDPLD29	1758	690409	1 - 431	15 - 445	
HDPLD57	1759	734528	1 - 412	15 - 426	

HDPLD89	1760	786704	1-421	15-435	R58132.
HDPLE38	1761	706639	1-345	15-359	AA642326, AI267274, AI183572, and AB020719.
HDPLE63	1762	703477	1-433	15-447	
HDPLE75	1763	852685	1-447	15-461	
HDPLE88	1764	625293	1-323	15-337	
HDPLE96	1765	915966	1-437	15-451	AA181731, AI343501, AL137607, AF109219, AB030280, AB030279, AB030316, and AB030312.
HDPLF86	1766	785316	1-619	15-633	H45885.
HDPLG10	1767	964213	1-402	15-416	
HDPLJ28	1768	840111	1-145	15-159	AW085622, AW135279, AA779541, AI627872, N51608, AA382892, AI272986, AA416724, AL045453, AI440260, AW082088, AI249877, AI589428, AL037602, AL046466, AW029611, AW104141, AI921379, AW089351, AI280751, AI285432, AI873923, AI590043, AW075522, AI680066, AL037582, AI347701, AW129106, AW172981, AW079119, AI956086, AI797908, AI698391, AI273901, AI537244, AI500504, AW074763, AI866503, AI673363, AI673278, AW051088, AW193231, AI432644, AW020397, AW074172, AI345415, AI889189, AI472566, AI633125, AI538564, AI815232, AI915291, AI491710, AW152182, AA928539, AI521799, AI884318, F27788, AW006032, AW130134, AI559524, AW087455, AW080746, AI345688, AI582912, AW163554, AI522052, AI697207, AA019328, AI859991, AI610690, AI249257, AI951868, AI963625, AI241744, AA862606, AI579901, AW105383, AI499890, AI866801, AI432030, AW104827, AI096481, AI580694, AW083374, AI500714, AI690748, AI670009, AI376872, AI679796, AA279795, AA580663, AI559555, AI890533, AI633062, AW148408, AI818683, AW104724, AI612852, AI922707, AI573032, AI962858, AW167083, AI583065, AI537024, AI648567, AI570909, AI435268, AI378080, AI538885, AI269862, AI538716, AW104062, AI636309, AI679672, AI580435, AW150225, AI631095, AI538850, AI362248, AI580451, AI312542, AW191844, AI684305, AW303089, AW131139, AA641818, AI559619, AI921464, AI267185, AW170673, H89138, AI523964, AW265004, AI961393, AA693331, AI624084, AI611743, AI912356, AW081322, AI621341, AL041105, AI452560, AL047344, AI687295, AI799313, AI366900, AI540674, AI473536, AA761557, AI866469, AI564723, AL048656, AI446124, AW151847, AI803778, AI016107, AI567883, W74529, AI690312, AI688858, AI677777, AW075669, AI702073, AI800473, AI371251, AW130681, AI263312, AA420722, AI536685, AI798456, AI678446, AW075305, AW192461, AI433157, AI952493, AI811840, AI002285, AI433994, AI866465, AI540458, AI799674, AI811644, AI564719, AW082607, AI254731, AI685005, AI469532, AI918809, AI887569, W48671, AI570807, AI352274, AW083778, AI345612, AI357599, AI862139, AW193038, AW081653, AI921176, AI683173, AI345416, AW129722, AI564500, AI679800, AI581033, AI291601, AI433600, AI909697, AI802542, AL048312, AL134712, AI619502, AI609580, AI627988, AI628015, AW021717, AI567846, AI682971, AL119828, AA744557, AI591387, AW128841, AI587606, AI241923, AA768478, AW169784, AI500061, AI933992, AW085786, AI280637, AW078895,

HDPLK49	1769	835603	1 - 275	15 - 289	AI469505, AW021373, AI863241, AI590021, AI537261, AI677797, N98597, AI623682, AI312210, AI582932, AI924713, AI567993, AL137429, U35846, AL122100, AL137533, AF177401, I48978, AL022147, X72889, AL050277, AF125575, AL133049, X53587, AC003032, AL137521, X53777, A65341, I48979, AL137529, AL137463, AL133557, AF061981, Z97214, L04849, AF102578, AJ005690, AL133112, AL078630, AL050149, AC006112, Y186680, AL080159, AL137488, AL049452, A49139, X93405, A93914, A08910, I28326, AC006288, AF087943, A08909, I08319, A08913, AR038854, AI8777, A77033, A77035, A08908, AF130342, AL133113, A08912, AB016226, AL137478, X65873, I00734, A76335, AF141289, Z82022, E00617, E00717, E00778, AL133010, AF032666, AL122110, AF000943, AL122008, AF026124, Z82206, A08907, S78214, AL080074, AL031346, I89931, AL080124, AL080124, AF113694, Y10936, AL133031, AL080110, I89947, AL080074, AL031346, I89944, I32738, AF137367, I49625, X79812, Y11254, AF079763, AF153205, AL050116, A08911, AF139986, AL110269, AI8788, AR068753, A21103, S76508, S36676, X80340, AC004686, AF183393, AL137574, AC006197, AL137275, AL137480, AR038969, L24896, AP000083, AL049283, AL122050, AL110221, AL117457, AL133568, AL122118, AF180525, AF106657, X83508, U95114, AL137550, A08916, AL035407, S77771, AF113019, AF076633, AF106697, AF104032, U72620, A58524, A58523, L04859, AF162270, A15345, AF026816, X82434, AF090934, AF067728, AL137560, D89079, AL117416, X92070, M96857, AL080156, U80742, Y07905, AF038440, AL110218, A17115, A18079, E15569, AL137539, U54559, L19437, AL117460, Z37987, S69510, AL110225, AL080148, AL137641, L04504, S71381, AL137276, S61953, AF078844, AF161699, AF082526, AF131773, U58996, AF031147, AF017790, AF047716, AF061795, Y14314, AF151685, AL096744, AL050108, U49434, AS2563, AB029065, AF000145, U88966, E08516, AL137537, AL137627, AR020905, AL137556, AF031903, S78453, Y16645, A86558, A65340, AF118070, A83556, L30117, and M85164.
HDPLN06	1770	935010	1 - 422	15 - 436	AJ239321, and AP000542.
HDPLN76	1771	921700	1 - 391	15 - 405	AA481295, AA213873, and AF001549.
HDPLOSO	1772	724098	1 - 714	15 - 728	AA355040.
HDPLT29	1773	958196	1 - 204	15 - 218	
HDPLV74	1774	765334	1 - 467	15 - 481	AL034375.
HDPMA48	1775	582015	1 - 829	15 - 843	AI760818, and AI769951.
HDPMC49	1776	852767	1 - 1468	15 - 1482	
HDPMF53	1777	733466	1 - 384	15 - 398	R60108, AI914747, W89152, AI371165, AW102980, H71659, U07562, AC002073, AL049576, Z95115, AC005832, AL09174, AC002551, AF110324, Z99291, AC002365, AL035659, AC002132, AC005015, AC004779, AC007151, AC004672, AL035405, AC007207, AL031713, AC004953, AC007011, AF111168, AL008726, AC002994, AF064860, AC006064, AC006430,

				AC004472, AL031276, M31951, and AC000394.
				AB001535, AP001064, and AP001063.
HDPMH83	1778	1 - 567	15 - 581	
HDPMJ93	1779	1 - 571	15 - 585	
HDPMO62	1780	1 - 570	15 - 584	
HDPMP25	1781	1 - 588	15 - 602	
HDPMQ34	1782	1 - 417	15 - 431	AA678970, AA515440, AI110760, AA680243, AA679936, AI633479, AI732120, AC005919, AC004382, AC008072, AF196969, L44140, AC005722, AC006285, AC005881, AC002470, AF109907, AC004655, AC012077, U63721, U95739, AC005244, AP000114, AP000046, I62293, AC004531, AC009516, AL022324, AC005037, AC007386, AC005057, AB022785, AC008989, U62292, AC004854, AC005225, AC005740, AC004526, AC004253, AC005776, U78027, AL031283, AC006576, AC004876, AL021155, AL049976, AC005695, AL021407, AC020663, AL022312, Z98200, AL035422, AL139054, AP00065, AC002310, Z93023, AC004815, Z98051, AC005180, AL049760, AP000553, AL022336, AC007387, AC005920, AC005280, AC000353, U52111, AF134726, AC005215, AC000159, AF165926, AL033527, AL049692, AL135744, AL031311, AC004477, AC005015, AC005015, AC004448, AC006026, AC007637, AC002404, AC006088, AC007225, AC005565, AC006539, AC007919, AC005846, AF047825, AC004858, AC000134, AL031985, AL132987, AC005821, AC005839, AL008582, AC004067, AC004651, AC005899, AC007388, AC005562, AC007773, AC005486, AC006571, AC016025, AC004851, AC004383, AL133243, AL133245, AL033683, AF053356, AL031680, Z86061, AC004895, AL024507, AC009044, AP000555, AL035458, AC005837, AL022163, AC005071, Z93020, AL008635, AC005480, AC005552, AF152363, AC005484, AC002059, AL023553, AC005399, AC004223, AF205588, Z84487, Z98743, AC004821, AF207550, AC002115, U95742, AL031432, AC004813, AC007845, AC005682, AL096791, Z95329, AC005479, AC006251, AP000350, AL009181, AC006388, AC008372, AC002418, AL049871, AC007216, AC005500, AC006254, AL049829, AL132777, AC002565, AP000302, AC003957, AC006115, AC005189, AP000493, Z94056, AC003695, AC006120, AL022721, AL023653, AC007536, AP000503, AL049780, Z83840, AC007055, AC005907, AC005859, AC000026, AC005755, AC012627, AC005609, AL031666, AC004882, AL049636, Z95115, AC004525, AC004601, AC002492, AF196970, AC007686, and AC005632.
HDPMS42	1783	1 - 460	15 - 474	H84948, R88291, AW014470, AI810506, R85497, C15173, AA704157, AA286825, D81736, and N93232.
HDPMV53	1784	1 - 535	15 - 549	F09050, AA243386, C14449, AB007944, AF109076, AP000310, AC002301, AP000116, and 177096.
HDPMW22	1785	1 - 452	15 - 466	AA447328.
HDPMZ01	1786	1 - 635	15 - 649	AA418623, AA418556, AA253164, H11871, and F05796.
HDPNA03	1787	1 - 97	15 - 111	AC005913.
HDPNC96	1788	1 - 720	15 - 734	AA256100, and AB023182.

HDPND35	1789	973108	1 - 453	15 - 467	
HDPNE60	1790	974827	1 - 977	15 - 991	AL138082, AW246260, AW247807, AW246149, AI878829, AW403641, R07062, AA687496, AW403272, AA687440, AA852531, AI659057, AI079775, AW005562, AF197060, AB009346, AB038365, AB038364, and U58884.
HDPNJ03	1791	924081	1 - 512	15 - 526	AA883801, AI298498, N85346, and AA249868.
HDPNJ14	1792	767447	1 - 308	15 - 322	
HDPOC44	1793	707241	1 - 660	15 - 674	AA360824.
HDPOD96	1794	939770	1 - 264	15 - 278	
HDPOF25	1795	852745	1 - 484	15 - 498	AC003109, Z97055, and AC005630.
HDPOI52	1796	927699	1 - 884	15 - 898	AI493647.
HDPOJ93	1797	792193	1 - 378	15 - 392	
HDPOK47	1798	973097	1 - 388	15 - 402	
HDPOL60	1799	767953	1 - 170	15 - 184	AI205285, AI264338, R48389, T57897, AA191491, R61591, AI365411, AA779717, AA227325, and AF056312.
HDPOL66	1800	681391	1 - 424	15 - 438	AA909852, AI718702, AA830158, AA281962, AA283111, AA579393, AA814111, AA480552, AA477445, AI791799, AA807056, AA469312, AA653189, AW451366, AA814853, AI598013, Z84489, Z84814, Z84477, and AF060863.
HDPOX65	1801	674963	1 - 283	15 - 297	AF001548.
HDPOY33	1802	702285	1 - 208	15 - 222	
HDPOZ51	1803	926977	1 - 417	15 - 431	AI014353, AA592982, and R17976.
HDPPA66	1804	870840	1 - 518	15 - 532	T99407, and T97870.
HDPPC83	1805	683656	1 - 403	15 - 417	
HDPPD59	1806	708334	1 - 223	15 - 237	
HDPPG35	1807	579315	1 - 538	15 - 552	AI767219.
HDPPG86	1808	923846	1 - 328	15 - 342	
HDPPK33	1809	666510	1 - 557	15 - 571	AA528168, AA417878, N75120, AA688401, AI689902, N59545, N59559, N78301, AA426418, AL037450, AW016155, and AA610394.
HDPPL30	1810	692095	1 - 581	15 - 595	AI453210, AA578690, AI950963, T05118, AI537407, AF036405, AC004408, AC007686, AC005666, AP000065, AC004985, AC005800, AP000347, AL049836, Z99716, AC005412, AF202321, AJ229041, AL035458, AF107045, AC006006, AC000025, AL110502, AL050341, AC004491, AC005527, AC004686, AL935587, AC009247, AL031668, Z97876, AC007390, AF196969, AC008394, Z82186, Z95114, AC005789, AL078639, AC005529, AF111167, AL031295, AC010205, AL096791, AC004382, AC002300, AL132987, AC005907, AC005409, AC007731, AC006455, and AC005500.
HDPPM09	1811	625281	1 - 516	15 - 530	AF041248, AF041249, and AF058759.
HDPPN33	1812	958993	1 - 136	15 - 150	

HDPPN59	1813	909867	1-711	15-725	AA781406, AA304143, and AI079221.
HDPPO88	1814	963382	1-629	15-643	
HDPPP24	1815	812091	1-543	15-557	AA082133.
HDPPQ39	1816	712993	1-463	15-477	AJ951092, AP000555, Z98304, AL024474, AL035464, and AC004655.
HDPPU30	1817	671973	1-327	15-341	AL022238.
HDPPU44	1818	951276	1-437	15-451	AI741964, AA361063, and AR035946.
HDPPW36	1819	785239	1-392	15-406	N25176, AB013139, AC004612, AF069291, and AF049895.
HDPPX43	1820	674958	1-291	15-305	
HDPPQA91	1821	973075	1-799	15-813	AL134920, AW392670, AL119355, AW384394, U46341, AW363220, AL119443, AW372827, AL119341, AL119497, AL119319, AL119399, AL119457, AL042542, AL119324, AL119335, AL119396, Z99396, U46347, AL119399, AL119484, AL119363, AL119391, U46350, U46351, U46349, U46346, AL119444, AL119483, AL037205, AL042433, AL042614, U46345, AL134524, AL119439, AL119522, AL134902, AL134527, AL042975, AL119496, AL042450, AL042965, AL119418, AI142131, AL042984, AL042544, AL042980, AL042970, AL043019, AL043029, AL043037, AL042978, AL079683, AL043011, AL043033, AL042551, AL043003, AL119464, AL119320, AL119488, AL042850, AL043039, AL043008, AL042973, AL042428, AC006238, AB026436, AR054110, A81671, AR060234, AR066494, AR069079, and AR043113.
HDPQC21	1822	786516	1-347	15-361	AA844106.
HDPQC83	1823	830539	1-465	15-479	
HDPQJ45	1824	928430	1-309	15-323	AI708005, AI001764, H78032, N67343, AA302697, AI270524, AA086150, AW157492, AA338167, AA338659, AI634691, AI678785, AI879394, AA449710, AI591375, R65651, AA855056, AI932600, AA845700, AA095637, AI053911, AF034194, AF037630, AI858864, AA074342, AW302724, F17142, AA847702, AA722297, AA679538, AI921043, AL042927, AI355414, AI932932, AA746726, AA287339, AA719073, AI733856, AA961035, AA077401, AI054414, AA737321, H64265, AA747009, N55515, AI798493, AA083215, R88067, AA365815, H11824, AA828062, AA503587, AI817230, AI922930, AW089898, AI494417, AI732789, AA493110, AA569786, AW069227, AI307565, AA381138, AW081303, AA630535, T47324, H69089, H65109, AA608715, AI634187, AA568494, AA605201, F36184, AI457313, AA587991, C15060, AA837035, T35761, AA833896, AA833875, H83470, AW270784, T51005, AI206669, AW302017, T52857, AI348678, AI367473, AI002708, AI916218, AC007536, AC005771, AC005340, AC005953, AL049773, AC002072, AC006972, Z93848, AL008716, Z70280, AC010382, AC004896, AC005050, M87898, AJ010770, AF092858, AF116241, U51280, AF001551, AC004882, AC007999, AC007199, AL034375, AL021154, AL117352, AL031311, AC006120, AC009336, AC001228, AC006953, AL080242, AL078477, AC003086, AC005529, D63861, AC004799, AL020998, U07563, AC004584, AC009247, AP000356, AC004821, AC004098, M87926, AL023882, AC005933, AC006958, AL078584, AB023049, Z82214, Z84572, Z97181, AC006011, AC007559, AP000512, AL137430, AC004796, Z46936, AL117330,

HDPQL15	1825	789876	1 - 415	15 - 429	AC004400, AC004476, AL050311, AC004149, AC004262, AL035460, AC005399, AP000350, AC003013, AC007842, AL021395, AC004019, AL137578, AC003965, U82694, AC004783, AC004706, AC002377, AC010205, AC005829, AC008080, AC006305, AC000067, AL035086, AP000017, AC002351, AP000555, Z69925, AF029081, U72788, AP000322, AC005625, AC005796, AC005885, AP000089, AP000053, AP000121, AP000167, AP000142, AC006597, AC002468, AC002426, AC008163, Z83826, AL035415, AL035088, AC006454, AC002456, AC005234, AL109628, AC006952, AF053356, AL050317, D87675, AC005578, AC007191, AL118507, AC005370, AC005841, AP000152, AP000010, AC005049, AL049557, AP000469, AC005921, AF165124, AC007298, 134294, Z97054, AC005800, AL049843, AC002312, AC007688, AL035681, AL109952, AL031296, U07561, AC002133, AC004517, AC005379, AC003963, AL031273, AC004834, U40455, AL035412, AC005193, AL031276, Z83822, AL031588, AL034424, AL133245, AL121653, AL049696, AC005138, AL079342, AL033397, AC004887, AC007917, AC005037, AC006312, AC005695, AL022165, M87915, AC007193, U75931, Z81364, AC006071, AP000513, AL031315, AC005914, AC007666, AC005919, AC002299, AC007435, AC007207, AL139054, AC002465, AL110505, Z68282, AP000692, AC004510, AC004644, AC005624, AC004791, AC009363, AC002369, Z85987, AL109627, AL031846, AC007314, Z98755, AC005837, AC008123, AL133448, AC005089, AC007363, AC006211, U66061, AL050331, AL096775, AC006088, AP000159, AC003112, AP000558, U82670, AP000261, Z99715, AC005903, AF024533, AC006130, AC005365, AC002316, Z98048, AF031078, AP000100, Z81369, AF124523, AL035588, AL034420, AF227510, AC005273, AC004825, Z99943, AL080317, AL079295, AC004057, AL021407, AC005088, AL121754, AC006538, AL022323, AC008124, AC005871, and AC004025.
HDPQL64	1826	746143	1 - 394	15 - 408	
HDPQL72	1827	760934	1 - 382	15 - 396	W73902.
HDPQN03	1828	923168	1 - 437	15 - 451	
HDPQQ40	1829	949723	1 - 1727	15 - 1741	AI680867, AA973037, AA868809, AW291165, AW169977, AA459970, AA235170, AA460062, AA235071, AA811821, AA234899, AW243583, RS0382, T19463, R47735, AA765007, and AA748788.
HDPQQ77	1830	739816	1 - 363	15 - 377	
HDPQR31	1831	741278	1 - 422	15 - 436	AC003695.
HDPQU30	1832	768771	1 - 464	15 - 478	
HDPQV63	1833	744471	1 - 307	15 - 321	H09185, F12161, T75262, and T65253.
HDPRE08	1834	958933	1 - 661	15 - 675	H00911, H84847, and AP000404.
HDPRE10	1835	961306	1 - 400	15 - 414	AC005105.
HDPRG09	1836	828572	1 - 366	15 - 380	AI653128, AA608839, AI082182, AA294981, AW451945, AA361764, AI610135, AW402400,

					AA926743, AA759066, AA287428, AL039683, and AB033038.
HDPRH02	1837	919404	1 - 777	15 - 791	AI348070, AI373167, AI378134, AI553832, AI816769, AA804474, AI401522, AA887492, AI084865, AA741486, AI796192, AA913644, AW071892, AI942465, AW007026, AA279724, AI381670, AI292178, AA279692, AI291674, AW291184, AW298288, AW452501, AI224978, AI301454, AA913182, and AI378100.
HDPRH59	1838	739077	1 - 604	15 - 618	AA213441, and AF017714.
HDPRJ39	1839	773790	1 - 392	15 - 406	R45733.
HDPRL58	1840	724652	1 - 370	15 - 384	AC005803.
HDPRN15	1841	577985	1 - 439	15 - 453	
HDPRP29	1842	690399	1 - 606	15 - 620	AI174237, and AA019204.
HDPRP83	1843	773394	1 - 452	15 - 466	AC006213
HDPRS79	1844	774077	1 - 288	15 - 302	AW236973, and AI521731.
HDPRY05	1845	958822	1 - 455	15 - 469	
HDPRY33	1846	893790	1 - 555	15 - 569	AI984149, T83298, T90781, AI598260, R94426, T80416, and Z97352.
HDPRY70	1847	677782	1 - 330	15 - 344	AW027929, AI672172, AW027716, AI313156, AI831852, AI738441, AI816795, AI909910, AR24006, AI961202, AI566917, AI394023, AW241527, AI693976, AI985370, AI384116, AI333382, AI768254, AI366852, AI337214, AI264540, and AC004917.
HDPSC55	1848	731496	1 - 308	15 - 322	AI815715, and AB028996.
HDPSG10	1849	961323	1 - 443	15 - 457	AA310474, and AI831536.
HDPSJ84	1850	782867	1 - 409	15 - 423	R16664, T82134, and AL031133.
HDPSM07	1851	620372	1 - 587	15 - 601	NS9251, AA504245, AI679277, AI922887, AI161077, AI767882, AW337496, AW138439, and AI679851.
HDPSO36	1852	959141	1 - 418	15 - 432	AI521731, and AW236973.
HDPSS57	1853	734507	1 - 563	15 - 577	AW264023, AI193596, AI276007, AI828424, AI342582, AI291713, AI140006, AI858631, AI500563, AI914656, H81012, AA847341, AA828840, AW339694, AI570067, AA873661, AA593168, AW238423, AW085626, R79396, R91350, AW245516, AW059706, AA947352, AA364082, AW028376, AI281622, AA632355, H85358, AA640563, AI760575, AI446618, R00693, AA364147, AI904126, AA991640, AW022796, AA515727, AI282322, AA420531, AA657834, AI003620, AI572680, AA493814, AI268465, AI814863, AA359194, F34164, AA310753, AW166996, AI500315, H57802, AA419014, AA502862, AL031427, AC003029, AF111168, AC006079, AC006071, AC004996, AL021546, AC005520, AC004233, AL021937, AL050318, AC005914, AC007314, AL021331, AC008372, AL133245, AL121653, AC002351, U07000, AL079304, AP000503, AC002425, AC005581, AF134726, AC006160, AL031255, AL049872, Z97056, AC004081, AL034420, AL034371, AL050338, AC004126, AL035422, AC002094, AF195658, AC006285, AC005585, AL121658, AL133448, AL022165, AC007066, AC004801, AC005800, AC004099, AL031121, AC004893, AD000864, AF038456.

Gene ID					Accession Numbers
HDPSU54	1854	670838	1 - 347	15 - 361	AF053356, AC006449, AC004909, AL031133, AL008719, AL023694, AC005102, AL049840, AC005225, AC004814, AC004883, AF001549, AP000112, AC004770, AL109613, AL031591, AL049780, AC004228, AC006530, AL035587, AC050308, AC004834, Z96074, AC004821, AC005011, AC005255, AC006162, AC008041, Z93017, AC004890, AC005006, AF176815, AC004151, Z82184, AC005759, AL109758, AC002407, L44140, AC005046, AC005015, AC005257, AC005755, AC007277, AC004997, AF139813, AC004087, AP000356, AL031229, AL121603, AC005003, AC002996, AP000008, AC005049, AC005303, AL034423, AC005696, AC006538, AC004686, AC005273, AL024498, Z98941, AL008710, Z99297, AC002558, AC008040, AC008171, AC000353, AL050325, AL117694, AL034379, Z97634, AL022326, AL035417, AL033521, AC002316, AL008726, AC003043, AC004648, AC002430, AC005519, AL031311, U73169, AC005043, AC006581, AL049759, AP001065, Z95116, AC007384, Z83820, AC005821, AP000244, AC007993, AL133246, AC005740, AC005399, AC005041, AC004812, AC016830, AL049776, U51280, AC007367, AL096774, AC005531, AC007308, AF039904, AL109627, AP000114, AC002991, and AL008734.
HDPSV04	1855	614924	1 - 410	15 - 424	AL043945, AF159205, and U64205.
HDPSV29	1856	690415	1 - 423	15 - 437	AA403069, AW410514, AI751649, AA486011, and AA099117.
HDPSY30	1857	691778	1 - 342	15 - 356	
HDPTC31	1858	878639	1 - 355	15 - 369	D86967.
HDPTJ25	1859	706448	1 - 365	15 - 379	AW084431, AA279385, R70884, AW272389, AA984920, R70883, F33820, AA158549, AA158550, AA092704, AA126271, H81732, T52745, AW071109, AI469468, AI627917, AI298079, AA229159, AI567391, AL041682, T98915, AA425924, AL047480, AA381775, AI564215, AA582746, F23268, AI279417, AL041681, AI078409, AA932787, AA948727, AA523695, W81172, AA808847, R99613, AL044489, AA197019, C75139, R09127, AI204309, AL047645, AI928890, AI921348, AW316599, AA015948, AW132065, AA558404, AA458534, AA977419, AA772704, AA515631, AI613465, AI242614, AW193523, AA572824, AA568307, AA746939, AA526413, F07564, AA070462, AA487300, R98409, AI933478, AA830615, AA744021, AI749306, AI345497, AA334091, AA837529, AW055286, AI630894, AA904211, F33126, AA743794, R87135, AA074252, AA811954, T08205, AA831638, N92697, AA371003, H62923, AA548221, R96427, R48980, AI859906, AW023515, H71659, AI289050, AA890060, AA303165, AI284092, AW151761, H73550, AI587349, AI565445, AI668566, AA504892, AA372293, AI800345, AA730488, R98835, AW265126, W23432, AA604515, AA720582, AA782322, AL037777, AW265688, AW118963, H48768, AI476460, AI249688, AA669747, AI275982, AI686563, AI954464, H73306, AI360504, AA230155, AI692245, AI818702, AI096714, AA077637, AA515160, AA973971, AI811319, AA572813, AW083706, W42587, AA831801, AI929298, R29092, AA652830, AA320105, AA309457, AI929825, AA506952, U46402, AI188049, T05276, AW151541, AW169390, N30650, AI733523, AA620498, AI459733,

| HDPT179 | 1860 | 669209 | 1 - 1017 | 15 - 1031 | AW083728, AI038304, AI654305, AA354695, AA999816, AW157180, AI141130, AI253376, AI566236, AI754567, AI569100, AW192599, AI754105, AA351808, AI755214, AI784258, AI624800, AA832016, AJ671077, AA665475, AA586433, AI080307, AI671695, AA192189, AA598627, AA533923, AA493618, AI537108, AA612578, AI653776, AI096738, AJ006995, AC000394, AC004079, AL031984, AF043945, AI239318, AL049911, Z97183, AL035551, AC007114, AC007387, AC006017, AL121838, AC002072, AC005666, AC004230, AC007263, AL109623, AC008150, AP000702, AP000701, AL035443, AC002477, AC005295, AL078600, AC005746, X54156, U94788, AC003681, AC004783, AC005320, AL034548, AC007773, AC005881, AL049553, AC004991, AC005602, AC004900, AL135413, AC016027, AC116830, AC002385, L12582, AP000317, AP000051, AP000119, AP000166, AL035703, AC000026, AC007192, AC005777, AL009183, AC000118, AF207550, Z84469, AC005972, AC007298, AC020059, AP000288, AP000109, AP000041, D87009, AC006040, AC005006, AL049557, U91321, AC005067, AL020993, AC003070, AL031000, AF111169, AF064857, M22970, X64467, AC005480, AC002301, AC003982, AC006251, AC002073, AC004982, AL096678, AC007036, AC002381, AL133162, AF072711, AC004796, AC004787, Z86090, AC004885, AC005203, AC004856, AL122020, AC010200, AC006111, AP000547, AC006430, AC004601, AC005364, Z68284, L48038, AL021453, AC002492, AL008707, AL021392, AC006236, AC007671, AC005237, L44140, AC010170, AC002287, Z94802, AC003026, AL109839, AL049631, AC005378, AL121603, AC005844, AC006317, AL031311, AC006480, U91323, AC005899, AC007308, AC002470, AC004232, AC007205, AF031076, AC004819, AF031078, AF030876, AC005695, Z82195, AF118808, AL108063, AL031009, AP000549, AC005514, AC005182, AL034554, AC006137, AL031983, AC002347, AL021578, U52111, AL031117, AC005531, AC006120, AC005082, AC006946, AC009731, AL034420, AC009509, Z93244, AB020864, AL023553, AC004685, AL031589, AL022162, AC002456, AC004551, AC010205, AC005803, AC005409, AF139813, AL096791, AC007917, AF111163, Z82171, AC005391, AL008719, AC005593, AL022343, AL033524, AL033419, AC005393, AC006006, AC007993, AL049636, AC003108, AC002094, U96629, AL096701, AL049871, AL022721, AC007656, AL022067, AL132800, AC008125, AL031591, AC005015, AC004522, AC004770, AC004228, M29929, U73634, AP000699, AC006276, AC005581, AP000300, AC000015, AL034421, AP000045, AP000113, AC004055, AL049643, AC005045, AL023581, AP000556, AP000557, AC007014, AL121769, AC006948, U91324, AL031657, AL109984, AC006025, AC004832, U08988, U73647, AC004262, AC004762, AC004938, AL031657, Y10129, Z83856, AP000305, AC004616, AC007347, AF001550, AC007225, Y07848, AL078639, Y10129, Z83856, AP000305, U91629, AP000690, AP001063, AP000047, AC006130, AL008582, AC004935, AP000115, AC004263, AF124523, Z99128, AL031588, AC005371, AL022316, AP000553, and AC005696. AA255804, AW274671, AW450051, AA256697, AA810976, AA731140, AA831863, AA737424, and AA761219. |

HDPTO71	1861	760142	1 - 662	15 - 676	AW131249, AL048534, AI783898, AA504896, AA668340, F17149, AI700109, AW277171, AA468022, AI309643, AI110595, AC008122, AB023048, AC002350, AC005837, AB001523, AF053356, AC005874, AF134471, AF111168, AL035450, AC007227, AC006077, AC005242, AC005197, AC002369, AL034423, AC005529, AC000353, Z82206, U66059, AP000356, AC005363, AC004643, AC004149, AC002558, Z81314, AL049748, AC005409, AC002312, AC007382, AC007955, AC020663, U91327, AL096791, AP000689, AI250235, Z98257, AC004447, AC006011, AP000557, AC005747, Z84476, AC007934, AF031078, Z93928, AC006285, AC004598, AF030876, AC007787, AP000141, AC005952, AC006039, AL133448, AL109627, Z93017, AC006966, AP000088, U73479, AC005695, AL096710, AP000036, AC006480, AC005411, AC006029, AL049832, AC005399, AC007536, D87675, AP000688, AC005570, L78833, AL031255, AL031286, AC009516, AC000025, U73636, AC000081, AL080243, AC005696, AC005257, AC007387, AC002378, AC006544, AL049776, AL049845, AC005512, AC005913, AC007226, AC005081, AP000692, AC006512, AC007022, AL096775, AL031662, AF064861, AC007919, AC003982, AC007845, AP000355, X69907, AC005015, AL008712, AC002059, AC006137, AC007051, AC006071, AL022163, AC004634, AC007040, and Z98752.
HDPTP07	1862	741632	1 - 355	15 - 369	AL079725.
HDPTS95	1863	906940	1 - 489	15 - 503	AW298312, AW298314, and AB033097.
HDPTT20	1864	669029	1 - 316	15 - 330	Z84488.
HDPTU30	1865	691181	1 - 343	15 - 357	AL049795.
HDPTU66	1866	697690	1 - 374	15 - 388	
HDPTU95	1867	876582	1 - 312	15 - 326	
HDPTW90	1868	722699	1 - 565	15 - 579	
HDPTD28	1869	852687	1 - 252	15 - 266	AI417133.
HDPUF77	1870	769852	1 - 246	15 - 260	
HDPUF94	1871	861520	1 - 438	15 - 452	H82937, AA418494, AA418396, AI064869, AW051301, T84203, F18098, AA846353, AA767276, T11545, H58588, T82034, AI609370, AA594971, U80017, AC002527, AC002302, AC004799, AC003010, AC004821, AC005011, AC005225, AL023755, AP000962, AC005071, Z80902, AP000502, AC002326, AF134726, AC005329, AC005031, AL133355, AC004922, AC004491, AC004839, AC004143, AC004976, AC004125, AC005564, AC002132, AC007151, AC002549, AL034419, AL009031, AC005763, AF024533, AC008015, AC005899, AL035685, AB026906, AC005162, AC006014, AC007546, AC006251, AC002301, AC002112, AC005015, AC007225, AL023807, AC003048, AC004878, Z97200, AC005488, and AC005764.
HDPUG06	1872	968313	1 - 459	15 - 473	AC002091, and AC003695.
HDPUQ02	1873	973235	1 - 683	15 - 697	AC006238.
HDPUS62	1874	604483	1 - 365	15 - 379	AI500481, F06397, AW148768, AI681168, N36045, AI133235, AA491120, R18846, T90676,

HDPVD09	1875	774165	1-723	15-737	AA054341, AL039390, AL046681, AI890907, AL046137, AI249936, AL044204, AI049726, AA598862, AL042551, AI672187, AL045166, AI431235, AI888022, AW151136, AL120789, AI932620, AW058275, AI866484, AL042009, AI366900, ALn47188, AL135710, AI689247, AI623302, AI884585, AI538615, AI431307, AI431316, AI431238, AI924051, AI920975, AI866786, AI431315, AI682915, AI866465, AI815232, AI801325, AI866691, AI500523, AI538850, AI887775, AI582932, AI590043, AI872423, AI923989, AI284517, AI500706, AI491776, AI445237, AI926593, AI289791, AW151138, AI889189, AI521560, AI500662, AW151974, AI285417, AI284509, AI582912, AW172723, AI539800, AI499512, AI889168, AI538885, AI440263, AI927233, AI866573, AI633493, AI434256, AI866469, AI805769, AI434242, AI888661, AI500714, AI284513, AI872310, AI888118, AI285439, AI859991, AI436429, AI355779, AI889147, AI623736, AI581033, AI371228, AI491710, AI440252, AI872315, AI440238, AI432656, AI567971, AI860003, AI610557, AI242736, AI539260, AI828574, AI887499, AI539781, AI702065, AI539707, AI885949, AL133074, Y17793, AL133076, AL133053, AL133049, and AL133078.
HDPVE76	1876	706712	1-546	15-560	AA256770.
HDPVG11	1877	966556	1-910	15-924	AW068637, AI003761, AI039369, AI380538, and AL137555.
HDPVH13	1878	656711	1-581	15-595	W26587.
HDPVL94	1879	927023	1-463	15-477	Z81450, and AC004652.
HDPVO96	1880	796133	1-389	15-403	AA777374.
HDPVR71	1881	740340	1-850	15-864	AA082562, and AC007899.
HDPVU35	1882	852616	1-623	15-637	
HDPVV46	1883	718160	1-399	15-413	AB002344.
HDPVV95	1884	582503	1-351	15-365	
HDPVW13	1885	656715	1-585	15-599	AC006207.
HDPVY53	1886	727593	1-317	15-331	AA948370, AC005390, and AB023180.
HDPVY58	1887	710458	1-365	15-379	AL038081.
HDPWA55	1888	965474	1-408	15-422	AC006966.
HDPWD25	1889	677764	1-500	15-514	
HDPWE80	1890	909916	1-932	15-946	AA172104, AA232124, AI986306, R58806, AA081848, and AA232093.
HDPWE88	1891	857980	1-427	15-441	R18560, R13864, Z41866, AA333327, AA016124, AF107834, AF119386, AF097723, AF009513, and AF107835.
HDPWH10	1892	967692	1-472	15-486	AI758788.
HDPWN34	1893	703814	1-451	15-465	AA714632, D45305, AA307780, and AI923248.
HDPWY46	1894	915964	1-462	15-476	AL120101, AW246324, AF034175, AI460387, AW401572, AA338094, AA348155, AA316673, AA337791, R59433, U46268, AW402296, AA955027, AA393071, AF061738, AC006160, and

HDPXE68	1895	852626	1 - 635	15 - 649	S65367.
HDPXF52	1896	726450	1 - 440	15 - 454	AF004231.
HDPXL59	1897	615543	1 - 568	15 - 582	AI697586.
HDPXL68	1898	707532	1 - 830	15 - 844	AA115345, N51515, AW297689, AA115304, N51527, AI925591, and AL080209.
HDPXP04	1899	614895	1 - 745	15 - 759	AA789296, and AI420081.
HDPXU29	1900	852638	1 - 519	15 - 533	T62674.
					H72530, AI207465, W52505, AI311647, AA174017, N72717, AA007673, N68472, AA773302, AA174016, AA223762, AI371165, N71291, AI457389, AL121782, AL008718, AC005833, AC004531, AC002369, AC005759, AL049757, AP000533, X77737, Y12851, X77738, L35930, AL031672, AC009336, AF109907, AP000553, AC007022, AF157814, AC004813, AC010205, AC005066, AL034552, AF001552, AC002395, AC005291, AC005789, AC000159, Z98941, L78833, AC003102, AL031591, AC000067, AC000093, AC007243, AF053356, Z49258, AC002375, AC006121, AC004828, AC006236, AC006388, AC005305, AC001231, AC006001, AC002086, AL008712, AC005695, AL050321, AL049544, AL035420, AC000105, AC006543, AC005664, AL022336, AC005911, AF111168, AC004805, AC006547, AC007533, AB014084, AC004659, AC006544, Z95118, AC004032, AL132992, AC004752, U07000, AL117258, AL031680, Z98742, AC004966, AF006487, AP000501, and AC003983.
HDPXW75	1901	951320	1 - 771	15 - 785	N46466, AI337376, W86648, AA522544, AI279721, AI341807, AI651516, AI245138, AI262580, and W86523.
HDPXX01	1902	915914	1 - 392	15 - 406	
HDPXZ92	1903	743429	1 - 673	15 - 687	
HDPYC51	1904	919000	1 - 333	15 - 347	AA831180, AA593812, AI608672, AA877902, AA845911, AW136605, AA831016, AW139428, AI920936, AI421209, AL138419, AL138420, W70159, AA034272, AI143351, W96568, AI870975, AI129781, AI749544, AA029334, W96468, AI801387, AI424505, W87792, AI342176, AI363136, AI310128, AI343371, AA029335, AI138774, AI217508, AI337280, AI832175, AI018551, AW195185, AW080907, AW009317, AA033560, AA339417, AW245250, AA523730, AI658874, AW138805, W70198, AW340796, AA781337, T89101, AA032082, AA746107, AI659538, AI989852, W87672, AI699899, R46554, R46555, AA340560, AI499481, AI890907, AI623302, AI431307, AI561147, AI866786, AI431316, AI431238, AL043278, AI815239, AI500659, AL134524, AW193598, AI866465, AI815232, AI801325, AI866691, AI500523, AI804505, AI538850, AI887775, AI582932, AI434223, AI872423, AI590043, AI284517, AI923989, AI500706, AI491776, AI445237, AI289791, AI926593, AW151138, R50170, AI521560, AI889189, AI500662, AW151974, AI285417, AW172723, AI284509, AI539800, AI582912, AI389168, AI538885, AI440263, AI927233, AW058275, AI866573, AI633493, AI434256, AI866469, AI805769, AJ434242, AI888661, AI500714, AI284513, AI888118, AI285439, AI890472, AI436429, AJ859991, AI623736, AI355779, AI889147, AI581033, AI371228, AI491710, AJ440252, AI440238, AI924051, AI567971, AI610557, AI860003,

	1905	726288	1 - 323	15 - 337	AI242736, AI539260, AI828574, AI887499, AI539781, AI539707, AI702065, AI885949, AI285419, AI559957, AW089557, AI521571, AI469775, AI866581, AW074057, AI567953, AI815150, AI446495, AL040491, AI889191, AI867068, AI952433, AL039390, AI225248, AI358271, AI798359, AI872315, AI932620, AI698352, AI282249, AI371229, AW151107, AL042551, AI371237, AI249936, AW194509, AI432644, AI355008, AL045166, AW151979, AL046681, AL039287, AI963852, AI494201, AI866458, AL046137, AI537677, AI371251, AI440260, AI866510, AI784016, AI499535, AI866461, AI923046, AI865995, AI521228, AI672187, AI955221, AI682915, AI500518, AW151132, AI432666, AI539771, AI689247, AI289386, AW151136, AI924024, AW112015, AI561170, AI690946, AI469764, AL047611, AI648567, AI433157, AI432650, AL048403, AI362391, AI521596, AI433978, AI828584, AW151970, AI801286, AI866484, AI687588, AI432653, AI474699, AL042787, AI431323, AL042655, AI431321, AI371243, AI431315, AI469754, AI499543, AL042533, AW081103, AL042853, AI145471, AL043166, AI432656, AI440236, AI289747, AL008718, AB023147, AI133076, U85195, AE000658, AI133053, AL122101, AL133049, AF126531, Z69719, AF045555, AL049538, AL133655, U30290, AL133074, E13998, AC005826, AC007358, AL023280, AL031282, AC005345, AR059958, AL133020, AL121603, AL031407, AC004544, AL049776, AC005993, AL031390, AL022324, AP000299, AP000113, AP000045, AL049795, AC005482, AC005483, U89387, AC006002, AC004656, AC005520, AR015970, AC004990, Z94162, AC005074, AC002078, AC004027, AC002430, AL009029, AC007384, AL121915, AF002985, AR055519, and AR034821.
HDPYD58	1906	791222	1 - 207	15 - 221	AW179153, AW179151, AW179152, AW179089, AW179088, and AL122043.
HDPYD92	1907	717598	1 - 485	15 - 499	AB011158, and Z61808.
HDPYE96	1908	774272	1 - 498	15 - 512	
HDPYF79	1909	886845	1 - 168	15 - 182	T87457, T99432, W88845, R06479, and AA226858.
HDPYH79	1910	791340	1 - 621	15 - 635	
HDQDU40	1911	793378	1 - 633	15 - 647	
HDQEA94	1912	771351	1 - 669	15 - 683	AW021230, T97381, D87685, and AF091622.
HDQEC77	1913	779149	1 - 481	15 - 495	AL119443, AW392670, AL119363, AW377827, AL119319, U46346, AW384394, U46351, AL119497, U46349, AL119496, AL119457, AL119335, U46350, AL119484, AL119391, AL119444, U46347, AL134528, AL119324, U46341, Z99396, AL134518, AL042970, AL119355, AL119483, AL119341, AL119439, U46345, AL134524, AL042965, AL119522, AL042614, AL042995, AL119399, AL037205, AL119396, AL134538, AL119418, AL119304, AL043029, AL042450, AL042975, AL042850, AL119320, AL042544, AL042542, AL043019, AL042984, AL119464, AL042551, AL043003, AB026436, A81671, AR054110, AR060234, AR066494, and AR069079.
HDQEC82	1914	927024	1 - 553	15 - 567	N75118, AL022157, and Z82211.
HDQEF04					

HDQEF89	1915	786393	1 - 531	15 - 545	
HDQEJ75	1916	766698	1 - 392	15 - 406	
HDQEN22	1917	931041	1 - 508	15 - 522	
HDQES62	1918	792766	1 - 661	15 - 675	AW269444, AA669114, AW082136, AI914499, and AC000398.
HDQET03	1919	923015	1 - 478	15 - 492	AI119391, AA833896, AA833875, AA655005, AA834885, AI887716, AW089898, R08918, AA584125, AI017251, AI811653, AA655209, AC006960, AC004707, AC007664, AC007327, AC007225, AC005828, Z85986, AP000503, AC005375, AF134726, AC008018, AC005944, AC003991, Z95115, AL033527, AL133163, AC006958, AC004993, Z82178, AL015405, AC005011, AC004106, D28126, Z49155, U07561, AC005954, AF002997, U95739, Z81364, Z85987, AL031282, AL008721, AL031673, AC004590, AC006316, AC004832, AC007388, AC007876, AC005516, AC000111, AD000813, AC005763, AC002316, AL023799, AL022312, AL049795, AL034549, AL022165, AC005688, AC006430, AL031643, AC006128, AC004542, AC004552, AL136297, AC005562, AC005783, AL009183, AP000252, AP000030, AP000212, AP000134, AC005996, Z82205, AC007283, AL031281, AC005484, AC006011, AC006328, AC005037, L78833, AC007533, AC006050, U62293, AL050307, AC006312, AC007114, and AP000690.
HDQET24	1920	805486	1 - 642	15 - 656	AW450053, F11194, and U91321.
HDQEU26	1921	959940	1 - 503	15 - 517	
HDQEU63	1922	852614	1 - 524	15 - 538	D25538, and Z49806.
HDQEU92	1923	973212	1 - 743	15 - 757	AI142131.
HDQFA01	1924	924539	1 - 1363	15 - 1377	AW297731, AI885498, AA800854, AI831297, AA687107, AA800960, and AI523034.
HDQFC85	1925	783797	1 - 1331	15 - 1345	
HDQFK04	1926	926758	1 - 673	15 - 687	
HDQFIJI1	1927	966106	1 - 319	15 - 333	
HDQFW03	1928	915968	1 - 542	15 - 556	AA476647, U25898, and AC005182.
HDQGB04	1929	852577	1 - 500	15 - 514	D79099.
HDQGC76	1930	950734	1 - 486	15 - 500	AL119319, AL042551, AW392670, AL119457, U46346, Z99396, AL119363, AL119341, AL119497, AW372827, AL119443, AW363220, AW384394, AL119484, AL119391, U46351, AL119324, U46350, U46347, U46349, AL119355, AL119496, AL119444, AL119483, AL134518, U46341, AL119355, AL134538, AL042965, AL134902, AI142132, AL119439, AL119418, AL119399, AL037205, AL119401, AL119522, U46345, AL119396, AL042450, AL042614, AL134525, AL134536, AL042970, AL119320, AL134532, AL042975, AL042544, AL043029, AL043019, AL042984, AL042542, AL119464, AL043003, AB026436, AR066494, A81671, AR060234, and AR069079.
HDQGG01	1931	974439	1 - 201	15 - 215	
HDQGK63	1932	875920	1 - 633	15 - 647	AC007395.

HDQGK93	1933	791744	1-429	15-443	
HDQGQ11	1934	966100	1-624	15-638	R64617, H86221, AA541532, AA630122, AA312303, AA659360, T47389, AA070927, AL037777, AW188742, AA601237, H84412, AI873759, AA302661, AA019003, AA669711, F35097, AA654874, T71936, AI160786, R72363, AL139054, AC002312, AC005231, AC000379, Z83844, AL031666, AC009509, AC004103, AL022323, AB001151, AC005605, AL022326, AL021977, AC007199, AL109657, AC005071, AC000353, AC005519, AC006241, AC006449, AC004878, AP000500, AC004134, AC004922, AC004821, AF042089, AC006023, U91321, AC004081, AL034417, AP000688, AF205588, Z93023, AL109952, AL035420, AL117337, AL035400, AP000509, AC006251, AL133163, AL024498, AL014549, AC004814, AC005815, AC004386, AC004491, AC002039, AL008718, AC007551, AL022165, AC005763, AL149780, AC004955, AC002128, AL078581, AF001549, AC004257, AC005081, AC005207, AL022316, AP000210, AP000132, AC004659, AC002418, AC006538, AC005620, AL135744, AL122023, I34294, AC007011, AL050317, AC005058, U85195, AC004910, AC005046, AC004851, AC005089, AL049576, AP000248, AC006006, AC004217, AC004139, AC002395, AC006014, AC005088, AL022327, AL033527, U07000, AE000658, AF196969, Z85987, AC005531, AC003043, AC005225, AL096701, AB015355, Z97054, AL031311, AF111168, AL109628, AC009501, AF001550, AC002126, AC007919, AC005944, AC002369, AC003029, AC002115, Z95116, AL079340, AC004865, AC006047, AC005015, AC005932, AF111169, AC005488, AC003966, Z98051, AC004067, AC005399, AL049694, AL031662, AC005332, AL109865, AC000075, AL109758, Z95114, AC007381, AC007899, AL035684, AL035072, AC006547, AL096791, AD001527, AC004770, AC002073, AC003080, AL049776, AC006211, AL049795, AL133246, AC002375, AL080243, AC004099, AC006468, AL050318, AC004815, AC002310, AC002425, AP000345, AC007151, AB021049, AC006047, AC005049, AC006011, AL035455, AC003455, AC003042, AC010077, AC004805, Z68872, AL022318, AC005049, AC007421, AC012039, AC005383, AP000512, AL022336, AC005484, AC007308, AL021528, AC006048, AL022476, AL022337, AL031291, AC006048, AL109827, AL031432, AC006450, AL078593, AC002476, AL022476, U91326, AL020995, AC004560, AL121655, AC000120, AL034429, AJ003147, AJ251973, U91326, AL020995, AC004560, AL121655, AC000120, AC005800, AC005387, AL022237, AC010206, D84394, AC005295, AC005913, AC005632, AC006536, AP000555, AC002072, AC005856, AC002301, AC006948, AL133245, AC009247, AC005261, AL031281, AC002036, AC006077, AC006254, AC007993, AC004694, AF030453, AC004884, and AP000689.
HDQGR80	1935	880654	1-509	15-523	
HDQGT70	1936	909848	1-436	15-450	
HDQHF10	1937	963485	1-395	15-409	
HDQHK04	1938	926988	1-949	15-963	AA809589, and AA532423.
HDQHM43	1939	852556	1-559	15-573	AA847392, H45758, AA021644, and AA010967.
HDQHO04	1940	926976	1-212	15-226	

HDQHO007	1941	852555	1 - 421	15 - 435	AC005390.
HDQHP44	1942	811790	1 - 502	15 - 516	AA428432, AF033033, AC008372, and Z81364.
HDQHQ83	1943	973129	1 - 493	15 - 507	AL044340, AA577824, AW022897, AA601125, W23726, AA161492, AI250561, AW166692, AI345007, AI345797, AA593465, AA226084, AW023662, AA577906, AA484749, AI133448, U47924, AC006965, AL117352, AL024507, AC005527, AC004584, AC004491, AL109627, AC005049, AC005529, AC006211, AP000356, AC004167, Z85986, AC007242, AI246003, AC004895, AC005952, AC005665, AC005089, AC006536, AC004656, AC005335, AC006251, AP001054, AL121658, AP000557, AC006538, AL049776, Y18800, AL022237, AC007055, AF030453, AP000556, AP000354, AC002369, AC005495, AF053356, AC004097, AC003109, AL133163, AC005220, AC005747, AC006112, AC007308, AC006012, AF001552, AC004000, AC005391, AC003664, AC002301, AC005015, AC004841, AC007226, AC003983, AL031311, AC002430, AR036572, U91328, AL031291, L44140, AP000008, AP000511, AC004963, AL035420, AC007384, Z93023, AP000704, AC004079, AC006449, AC006238, AC002551, AF111169, AC004149, AC004408, AL021154, AL020997, AC005542, AL049709, AC006088, AL035460, AC005500, AC005940, AC005332, AC004967, AC004217, Z98304, AC003098, AC007201, AC005088, AC004522, AC006050, AB017602, AC004671, AC004882, AC006270, U91326, AP000114, AC000114, AC002464, AC006946, AL031276, AL079303, AC005548, AL049636, AC002544, AC005225, AC002094, AC005180, AL008718, AC006130, AP000269, AC005920, AC005102, AC007324, AL109984, AC006241, AC005067, Z95114, AP001052, AC005277, AC003665, AL133485, Z84487, AL031432, AC005841, AF217403, AC004084, AC006057, AL035072, AC006480, AC005081, U80017, AC002472, AC002425, AP000103, AC004520, AC005581, AC007225, Z97055, AC007686, AC007664, AP000032, AC003071, AC007878, AC004983, AC004953, AC004834, AC010205, AL050325, AC004020, Z84466, AC004143, AC005302, and AL031281.
HDQHT10	1944	963481	1 - 481	15 - 495	W31026, and AC005783.
HDQHZ10	1945	961336	1 - 474	15 - 488	AA179094.
HDQHZ22	1946	879416	1 - 396	15 - 410	
HDQIH19	1947	974391	1 - 504	15 - 518	AA557945, F16848, AA984829, H68343, AA507623, AA659832, AA368329, H15241, AA434078, AA560206, AA558404, T47138, F34151, H54252, H53284, AI249519, AA664963, AA610255, AA557790, AA778580, AI732911, W45215, AW265279, F34157, AA470490, AI567391, AA662614, AA368012, AL134332, F31867, AA845333, AA776225, AI671077, AA831919, AA371410, AL045423, T03928, N23504, AI345497, AI049630, AW237905, F24745, H86399, AI114494, AI860423, H43183, AI198718, AI190648, AA078483, DS1877, AA846923, AW381821, H52397, H85808, AA846482, AW236277, AI619933, AI828721, AA778962, AA102737, AI800343, AI859744, AA911515, AI065031, AI337612, AA366601, AA225627, AW419389, AW265614, AA610433, AW265276, H58393, AW381823, AI284543, AI054090, AL079734, AA468458, AI929298, AJ358928, AA568314, AI929825, AA706202, AA084032.

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			15 - 536		
			15 - 592		
			15 - 274		
		1 - 522			
		1 - 578			
		1 - 260			
	966021				
	926528				
	924108				
HDQIJI1	1948				
HDQMA71	1949				
HDQMD13	1950				

	1951	783547	1-328	15-342
HDQMD14				
HDQP183	1952	780731	1-687	15-701

AI284640, AW303350, AW303196, AW274349, AI754955, AA581903, AI110770, AI334443, AI133164, AI345518, AI708009, AW072923, AI801591, AL138265, AI281881, AW276827, AL042420, AI085719, AA483771, AI624142, AI610159, AW265009, AI679132, F36273, AL120687, AI471481, AW270270, AA164251, AI064864, AA491814, AL119491, AI379719, AW406447, AI375542, AL046898, AI821714, AI792133, AI791913, AA649642, ALO38474, AA525190, AA908687, AF150152, AI821785, AI053672, AA584201, AA553468, AI801482, AI340453, AI355206, AI537955, W79504, AW439558, AI110760, AW148792, AI590958, AI623898, AI148277, AA126051, AA126035, AI431240, AA493708, AW338086, AA521323, AI733856, AL048925, AI590689, AW088616, AI871722, AI370878, AW162489, AI471572, AI632991, AA521399, AI344844, AA806796, AL037554, AI674873, AA601253, F32808, Z98884, AL121757, AC004941, AL122020, Z99943, AC007846, AC002429, AC002994, AP000568, AL035458, AC006254, AC002524, AL035089, AC006084, AC005244, AC007022, Z84470, AL133500, AC004386, AC004385, AL035427, AL032821, AC003071, AC005971, AF190465, AC007537, Z93928, AL049552, AC003962, AC005066, AC004993, AC003015, AC007068, AL109865, AL049792, AL135783, AC005670, AC002377, AF029308, AC008079, AP000352, AC004806, AC007676, AL031885, AL035563, AL121655, AC005011, AL035460, AL031588, AC007066, AC002302, AC002430, AR036572, U91328, AC007156, AC007384, AP000049, AC004990, Z76735, AL049776, AP000311, Z98172, AC007363, AL096867, AC004895, AC007630, AC002115, AC011604, AC002128, AC000353, AC002531, AC004491, AC002418, AL049867, AC006430, AC005618, AL033397, AL133448, AJ011930, AC006079, AC004822, AF118808, AC000114, AC005385, AF109907, AC004916, AC006037, AC006226, Z97054, AC004087, AC002402, AP000552, AC006511, AC005261, U91323, AL109628, AP000555, AC005037, AP000432, AC004838, U85195, AL023494, AL132994, AE000658, AC004998, AC004912, AL049557, AC006128, AL109967, AJ003147, AL121591, AC002470, AC005837, AC006539, AL049795, AC007488, AC006210, AL121603, AC006479, AC004987, AC004858, AC007686, AC002404, AL023882, AL035249, AC005062, AL121653, AC006509, AF064866, AC005234, AC004755, AP000500, AL049712, AC002996, AC008039, AC004626, AF001549, AP000354, AC007099, AL031281, AC002385, AC017228, AL034384, AC004884, AC005189, Z98200, AC007216, AL031311, AF134726, AC005921, AC006525, AC009069, Z92545, X75335, AC005393, Z97053, AC004933, AC006251, AC003664, AL121694, AL096712, AC010206, AF077058, AF123462, AC006211, AL035494, AL139054, AC004534, AL096791, AP000557, AC006561, AL121823, AC004765, Z99129, AC005242, AL021069, Z86061, AC005839, AC007298, AC005993, AC005808, AC002091, AL021453, AC004972, AC005358, AL033525, L44140, AC005944, AF003627, AC002394, AC006213, AC003982, AC000085, AL031670, AC006989, AL121748, AC006537, AL121580, AL031668, AC004650, AL022311, AL132992, AC005610, and AC005696.

HDRAB68	1953	752316	1-196	15-210	
HDTAG28	1954	765834	1-159	15-173	
HDTAQ55	1955	728772	1-353	15-367	AA380977
HDTAY23	1956	973925	1-352	15-366	AA504311, W45240, AA431996, F13467, F13502, and H10924
HDTBF27	1957	683389	1-759	15-773	AA234529, AI565424, AI624101, AI694224, and AC005021
HDTBL45	1958	785534	1-431	15-445	
HDTBQ48	1959	945083	1-505	15-519	
HDTBO74	1960	765555	1-453	15-467	AA480145, AA837058, AA663306, F19258, AA713815, AA491814, AA365347, AA551509, AI205126, AA228329, AA826032, AI003172, AI886176, AI921188, AA515435, AI003743, T16592, AA095511, AI054246, AW088058, AI820743, AI565245, AW088202, AI282907, W60516, AW080134, AW406447, AI281903, AA340003, AA652764, AI053816, AI904894, AI567674, F29989, AA482711, AW301818, AA361344, AI282832, AA593060, AL041368, AI358229, AA318652, AI307426, AA077935, AW406755, AW104748, AI365988, AI474713, AW339687, AF177861, AA365144, AL138265, AW361583, AI635272, AA856981, N43757, AI963095, AI791503, AI732546, AA077817, AW071063, AI214510, AI802526, AA450199, F31204, AW074398, AI791290, AW022046, AI921649, H64777, AI679782, F35659, AI989742, AI376100, AI561335, AA292574, AA557325, AA501722, AW074059, AA252763, AI356904, AI922654, T12272, AA515128, AI564284, R72392, AA428414, AA743956, AI570138, AI536555, AI929531, AA077776, AA434484, AI284640, AI537955, AI446601, AW162049, AI251002, AA729264, AI962050, AA228420, AA515051, AA581342, AI890923, AA229785, AA658235, AW029038, AA932099, AI610159, F36273, N25303, AI917271, AA584749, AA653057, AI471481, AW166815, AA745410, AA919037, AA243452, AA218645, AW074207, AI610920, AI499134, AA580662, AL138455, AI139968, AI051551, AI286356, AI188469, AI110770, F37286, AA826004, AI053672, AI345675, AI339850, AI345681, AI357551, R41717, T06556, AI334443, AI865364, AW008317, AA342958, AI471729, AI048925, AI120674, AI049634, AW193265, AI816537, AI003611, W25284, AA654627, AI951863, AA364567, AA843450, AW401783, AA501784, AI079667, AW302101, AA077952, AA829106, AI248679, F32395, AL119391, AI742771, AW276435, AI547286, AA443065, N71724, AI285615, AA652057, AA441788, AA649642, AI149915, AA501344, AI286264, F25203, AW438916, AW340844, AI469172, AA650244, AI493615, AW419262, AW048616, AI312149, AW440836, AW105538, AA634855, AA774923, AI049722, AA602069, AL046898, N71596, AI912322, AI299050, AL079804, AA558227, AA886584, AW302309, AW276827, AI807372, T71998, AI268812, AI133636, AW265294, AI926124, AA904218, AW339568, AI431966, AA559290, AI433187, N27353, AA125788, AI469878, AL040913, AI803348, T40338, AW274101, AJ421213, AA648110, AA366035, AI951889, AI951928, AA757474, AA192740, C06327, AI368745, AA178953, AL043756, AA503258, AI368256, AA320977, AL038785, F18974, AI133164, AC002426, AL034548, AI109756, AL021578, AC004903, AL009181, AC005089, AC006312,

HDTBO94	1961	869818	1 - 562	15 - 576	AC006153, AC001234, AC004027, AC004254, AC002476, AL031121, AL035458, AC006333, AC002982, AC004088, AP000692, Z86061, AF015168, AL031734, AC005099, AC003119, AC006984, AC002542, AC005331, AC004460, AC004020, AL136295, AC005999, AC006222, AC012627, AF060568, AC005911, AL117258, AL049829, AC004236, AC004522, AL050338, AC007845, AL121603, AC006285, AC005084, AC016025, AL049776, AL022323, AL034419, AC002504, AL109764, Z74739, AC004458, AP000474, AC005064, AL109799, AC002072, AL031577, Z65382, AC003029, AC004041, AC000083, AC002117, AP000017, AP000158, AC006539, AL109622, AC000097, AC006547, AC005040, U47024, U91324, AC007059, AC004520, AC003088, AC004491, U95739, AL031432, AC006128, AC008055, AC004167, Z82216, AC005324, AL035072, AC006561, AP001037, AL049691, Z84480, AC003099, AC005389, AL080286, AP000954, AL121915, Z71187, AC006352, AC007239, Z97053, AC006992, AC004617, AC002056, AL110502, AC002432, AL033381, AL096701, AP000355, AL121578, U14702, AC006241, AF015163, AC007191, AC003101, AC006208, AC004916, AL031584, AF029308, AL049554, AC005004, AC001530, AF140763, AF015170, AL031709, AC005755, AC005866, AC005186, AL031770, AC005194, AC006552, AC007358, AC006384, M87918, X67277, AR042836, AC007285, AC005751, AC005838, AL031279, AC004785, Z84485, U78027, AC002462, AC003104, AL035422, AC005666, AC007227, AC016026, AL021937, Z92542, AC007056, S75201, AC002553, AL096734, AL078604, AC004186, AC003960, AF045448, AL049758, AF121781, AC008103, AC002558, AC004230, Z82203, AL049589, AC008634, AC022517, AC007325, AJ003147, AC006972, Z83819, AF053356, U14703, AC004534, AC006207, AC006840, AC005280, AL109802, AF201337, U80017, AP001172, AC004526, AC004960, AC005778, AC005066, AC004675, AF067122, AL033525, AC007151, AP000306, AP000047, AL031905, AC003085, AF131217, AC008062, U62317, AC006195, AC004381, AC004827, AP000115, Z99129, AL078593, AJ000170, U91322, AF137396, AC000075, Z98046, AC006323, Z97635, AL034373, AL031735, AC005664, AL022394, AC007671, AC005225, AC007370, AL035665, AL049696, AF117829, AC006538, AC004931, AC007193, AF088219, AL020996, AL109654, AC008015, AC005746, AC007320, AL133245, U12583, AF147277, AF023460, Z68328, Z97196, AL035468, AC007242, AL049760, AL031280, AL035258, AC007254, AP000432, AC006975, AL035469, AC009044, AL023513, AC004886, AC006952, AP000154, L13713, AC004638, AC002375, L13714, and AC002523.
HDTBQ20	1962	886757	1 - 458	15 - 472	N69991, W47065, AW368643, AW340968, W00799, W04207, AI420674, AW027417, AA779727, AA736509, AW263261, AI090172, AA814921, AI924139, AA375842, AA375767, AA494558, AI422731, W46965, AA969233, AI142954, AI161089, AI167233, AA737756, AI681576, AA449149, AL049415, A61271, and A61272.
HDTBQ34	1963	703446	1 - 453	15 - 467	AA625147, AL044429, N95514, AI521188, M78692, AA083339, AA625350, AA916868, R46588, and AA935301.

HDTBQ47	1964	720298	1 - 369	15 - 383	AI933595.
HDTBQ56	1965	799840	1 - 1310	15 - 1324	AI384076, N21097, AI167276, AI275519, AA495978, AW103498, AA235681, AI224882, AI565119, N31109, AI797229, AW130630, AA425033, AA491486, AI635704, AA463747, AA766927, AA631521, AA829333, AA490708, AW188888, H11440, AI873833, and AA236876.
HDTBQ80	1966	775420	1 - 356	15 - 370	AA860394, AI659377, AI440260, AI479292, AA514684, AI499986, AI500523, AI539800, AI340519, AW082532, AL047344, AA641818, AI648699, AI915295, AI345415, AW148536, AL040011, AI625926, AI446511, AI287233, AI445256, AI952493, AL042515, AW198133, AI500061, AW151652, AI571442, AI470717, AI611738, AW055252, AI890907, AI686690, AW023871, AI453248, AI860027, AI872423, AI378123, AI678446, AI288305, AI571699, AW130930, R81679, AI500714, AI128239, AI874261, AW089844, AL038715, AI696603, AI095003, AA765198, AI559619, AI683395, AI824361, AW081866, AI630928, AI540354, AI624938, AI309306, AI633125, AI434969, AI783785, AI271796, AI417790, AI859991, AI799313, AI686565, AJ620864, AI538885, AW129264, AA604875, AI568293, AI433994, AI539723, AI638644, AW020381, AAS03384, AI572096, AI539690, AI061405, AI345688, AI635634, F35031, AL041150, AI863382, AI923989, AI690813, AIS24179, AIS54301, AI917428. AI623736, AI432040, AI699020, AI440238, AW151136, AW022636, AI866465, AI570861, AI589428, AW021189, AAS75922, AI620056, AW163554, AI680221, N22276, AIS65172, AI862043, AI950729, AI631216, AI174799, AA731184, AW075382, AI658566, AI348854, AI499335, AI623396, AI683173, AI866458, AI241741, AI648454, AW166937, AIS90043, F34241, AI554283, AW083750, AW105613, AW193620, AW262491, AI439452, AI613314, AI499104, AI702019, AIS37273, AI801325, AIS73644, AW058341, AW151831, AI744243, AI340559, AI818562, AI312963, AI361701, AI865906, AW104641, AW088145, AI291214, AIS39080, AI917331, AIS82871, AI436458, AI499581, AI274655, AL036548, AW167146, AI648494, AI621341, AIS24654, AA808175, AI656270, AI679550, AI671429, AI698391, AI538564, AI818240, AL121564, AI915291, AW152182, AIS38575, AI801064, AIS82932, AIS60545, AI619820, AI735654, AW021662, AW195253, AI434731, AI827058, AL120987, AI348901, AIS39667, AI889189, AI811192, AIS21560, AIS21005, AI872545, AI479577, AI079226, AIS38764, AI473536, AI927233, AIS39260, AI095192, AW151893, AA693444, AW196720, AI866469, AW161156, AI422855, AAS02794, AIS59752, AI884318, AI355779, AW238688. AI114703, AI370623, AIS70056, AI815233, AI632036, AIS37408, AW021717, AI566399, AI917252, W74529, AI918809, AI336586, AW080700, AIS83484, AI797578, AW268306, AAS79618, AW051453, AI701097, AI636507, AW090001, AI345612, AL043326, AI263331, AI472487, AF076464, AF139986, AL117575, AL117416, AL133665, I48978, I08319, AL137530, U62966, AF013214, AF162782, Z37987, AC007043, AL050024, S68736, AL032822, L31396, L31397, AL109672, A08916, Y13350, AL133075, X66366, X00474, S61953, L04849, AL080110, AF176651, E01614, E13364, A08910, AR050959, A08909, AF106862, AR038854, Y10655, D44497, AL049382, AF111851, AF118092, AF185614, AF182215, I89947, AF113694, AL117429.

HDTBR15	1967	660236	1 - 449	15 - 463	X63162, AL049452, AF090934, A08907, AL122049, A08908, X78627, AL050143, A08912, A08911, L04852, S36676, AL137271, AF124728, E06743, X99226, AF143957, AF016271, AF146568, AL050092, AL137550, S76508, AF100931, 148979, A08913, AL122093, AF124435, AF111849, AL023657, X83508, AL110199, A57389, A65340, AL137461, U58996, AL137284, AL117649, AF090903, Y14314, S82852, AL133112, D83032, AR022283, AF000167, AF067790, AF017437, A41579, A65336, AL117587, X89102, AL137281, AL137711, 126207, AL050155, AF116573, Z97214, S78214, AL137300, AL035458, S54890, AF111112, A08456, Y16258, Y16257, E02756, Y16256, A65341, AL080146, E03671, AB007812, AF017152, AF090900, AF184965, AF177401, AL137547, AJ010277, AL137488, AF030513, AL080129, AL133565, A21101, AL080118, AI5345, E15582, X66862, 128326, AL110196, AL049464, AJ012755, AF132676, AF061836, 146765, AF076633, AF106697, AF112208, A03736, AL122121, 103321, AP000028, Z82022, X55446, AL117435, AR068466, AL049347, 189931, AF017790, E07108, S83440, AL136842, AL117440, X01775, AL049466, AFO54831, U75604, S77771, 149625, S83456, AF113690, A18777, AF113677, A8658, AF047716, AL137256, E12579, E12580, AL133010, X65873, AF102578, AF081197, AF081195, 100734, E12747, AR029580, 179595, AF002985, AL117648, AL122110, AR020905, AL136884, A31057, AF175903, AL049339, AL133080, A77033, A77035, 133392, AL133640, AF141289, AL050277, AF183393, AL096744, AL110221, Y09972, E00617, E00778, AF139373, AF008439, Z35309, AL133623, A12522, I89934, E05822, AL049324, I102475, AF118090, E02349, M30514, AL050172, Z13966, AL137529, AF061795, AF151685, U73682, U49434, AF185576, AL080148, AL080126, AR034821, AF085809, Y00093, AL137476, AR053103, AL133558, AL133560, AL080124, AL133559, U54559, AL137258, and AJ238278.
HDTBR50	1968	846630	1 - 453	15 - 467	AI753313, AF004877, and AC002528.
HDTBV02	1969	920008	1 - 461	15 - 475	
HDTBV18	1970	893761	1 - 367	15 - 381	D25267, AA635901, AC005399, AC007227, AC004685, AL022316, AL080243, AC005324, AF064858, AC005305, AL021937, AF003626, AL049694, AC005330, U80017, AC005031, AC005874, AF134471, AC005920, AC004883, U07563, AC004938, Z98946, AL033527, AC007052, AL049631, AL022345, AC007263, AC004491, AC005571, AC005756, AC005726, AC006013, AL031597, AL033517, AC005409, AC003663, AC004253, AL049776, AC006014, AP000466, and AL049871.
HDTBWS2	1971	726060	1 - 507	15 - 521	AC004056
HDTBX47	1972	719530	1 - 424	15 - 438	
HDTBY88	1973	934472	1 - 495	15 - 509	AA868305, AI700890, AA789239, AI803004, AI694352, AA043382, F08474, R21498, AF112183, AF112184, and AC005354.
HDTCC60	1974	740350	1 - 390	15 - 404	AA864722, AA319763, AA248838, AA193325, AW367238, AI688661, AI921062, AW024122, and AW130404.

HDTDA45	1975	799875	1 - 697	15 - 711	T97833, T97457, and R09338.
HDTDC23	1976	675331	1 - 511	15 - 525	AI471572, AA502155, AA130647, AW402145, AA599063, AI192863, AL035587, AC005164, AC005562, AB003151, AL050332, Z83840, AC005261, AC004185, AP000509, D84304, AC002477, AC007917, AF111163, AL035653, AC005089, AC005829, AC005529, AC000114, AC005512, AP000496, AC005399, AC004948, AC004076, AP000150, Z47046, AF031078, AF030876, AC004263, AP000009, Z98884, AC005498, Z98885, AF196970, AC006251, AC007228, AC005940, Z68162, AC004882, AL031650, AC004796, AL009181, AL049867, AC005520, AC007630, AL022069, AL031000, AL121655, AL117258, AL049829, AL024498, AC006137, AC003690, AP000215, AC007308, AC002470, AC006539, AC006057, AF207550, AL034429, Z82198, AC005822, AC003035, AC006538, AL008582, AL022318, AL031595, and AC006241.
HDTDC53	1977	916348	1 - 220	15 - 234	AI205597, AI018716, AA952883, T66939, W86678, AA122311, AI208307, AA843726, AI090688, AW243845, AA618005, R15455, C00676, AI476338, AA371098, AL119399, AL042382, AL079794, AL043152, AL119511, AI288285, AL119457, AI621341, AL043168, AL042544, AL041150, AI540674, AW029401, AL037582, AW168485, AL037602, AI095003, AL038529, AL037454, AL698391, T95813, AW023846, AL036705, AI950664, AW083573, AI818358, AI638644, AL042191, AI963846, AA857847, AI679214, AA908294, AW264727, AI537677, AI538055, AW152182, AI915295, AI868740, AI589428, AW103628, AI866465, AI587000, AW051088, AI758512, AI564290, AI267162, AL077740, AI500061, AI434731, AW022636, N29277, AI553645, AI783792, AI590043, AW020397, AI571551, AI557238, AI678773, AI499570, AI872343, AL119324, AW162194, AL036249, AI802542, AI241901, AL119863, AW082088, AI147292, AW163834, AI683475, AI745529, AI609760, AI859991, AW021373, AI094749, AI145415, AI623941, AL046473, AI289791, AI567971, AI446704, AI280732, AI250627, AI610446, AI559752, AI312210, AA829061, AI249877, AL046595, AI472566, AI561356, AI612913, AL043355, AI538850, AL039086, AW023338, AA805434, AI620810, AW089275, AI813633, AI568114, AI539800, AI309306, AW059713, AI267185, AI475371, AI355779, AI582932, AI682798, AI860673, AI524179, AL041996, AI280607, AI679211, AW161156, AI673363, AW020419, AI929108, AI583032, AI345688, AL040449, AI634919, AL045266, AI680270, AI342023, AI590686, AI536685, AI783997, AI471429, AI866780, AI401697, AI801325, AL046466, AI884318, AI796743, AI433968, AW128841, AI860652, AW104683, AI589004, AI679506, AI699823, AW024374, AA975952, AI567680, AA503384, AI288050, AW105431, AI354998, AW129616, AW008226, AI573060, AI242248, AI565172, AJ610293, AI655932, AI953767, AI567846, AL135065, AW128834, AW132071, AI524654, AA831948, AI683173, AW088899, AI469505, AL118781, AI635492, AI890391, AI923989, AI284517, AW050578, AI678599, AI932458, AI274507, AA479803, AI811840, AI864102, AI917963, AI368579, AI678599, AI932458, AI274507, AA479803, AI811840, AI864102, AI917963, AI538764, AW193872, AI824576, AW163554, AI538637, AI625701, AI366922, AI627604,

1767

HDTDD49	1978	799872	1 - 448	15 - 462	AI251221, AW403717, AI371251, AI270295, AI478902, AJ432644, AA580663, AW148536, AI422688, AW088560, AI921092, AW151136, AL040011, AW008353, AI288305, AI676003, AA641818, AI540458, AI468872, AL048323, AA808175, AI567582, AW132001, AI446373, AL048340, AI648458, AI281757, AL047675, AL110791, AI252077, AI889189, AI932794, AW021717, N71180, AW029186, AW129264, AW073907, AI343091, AI633061, AA768046, AI335363, Y11587, U77594, U35846, AI137480, AF132676, AF061836, AF030513, 148978, AL049347, AF047716, AF026816, 1167728, AL133075, AL133113, Z97214, 189947, AL133637, AF007996, AL122098, AF017152, AF146568, AR034821, A65341, AL133049, SR34401, AR068753, AB016226, AL137271, AF118092, AL137554, A93350, A08910, A08909, A65340, A08913, AF102578, S61953, A08908, AR020905, AL133067, AL133067, A77033, A77035, I33392, U95114, A08012, U37359, 110499, AF177401, AR038854, AL133072, E02221, S77771, AL023657, AL137550, AF106862, A18777, E12747, X63162, S76508, AB029065, A21103, AF126247, AF067728, U49434, AF104032, A0891, AF113689, E05822, X98834, 179595, AF002985, 118355, AL117587, AL050172, AL110296, AL133557, X92070, A08911, 134392, AL110218, A08907, AL122110, AL117463, AL110197, M96857, Z37987, AL122100, AL137533, S53987, AL080148, AJ005690, AR053103, AL137523, 148979, AJ238278, 1187620, S69510, Y14314, Y07905, 189931, AL136884, AL080159, AF183393, AF111849, 189934, AL110225, AF061981, AF139986, X72889, 149625, AF106945, AF145233, AL049339, Y10823, AF087943, AL080140, 142402, Z82022, U55017, X67688, AB007812, M27260, AL137547, AI010277, AL122093, AF008439, U49908, AL133560, L04504, E01314, AL137529, A45787, S68736, 132738, AF106657, M92419, AL133665, L04849, AL137526, AF113677, AI000937, 1289079, A76335, AR029490, AF195092, AF180525, AL137488, AL133112, AF182215, A23630, 100734, AI5345, X98066, AF067790, AF031903, AL137286, Y11254, AL122104, AL137530, AL080154, 126207, AI242859, X84990, AL137574, E00617, E00717, E00778, AL137294, X72287, AL137521, AL122121, X83508, AC003032, U75932, AR013797, X82434, S36676, X79812, X87582, Y10936, AL049430, AL049460, AF107847, AL122106, AF017790, X55446, AL137711, AF185556, AL110224, D16301, X81464, AL117648, 1154559, AL050277, Y13350, AF026124, AF205861, 103321, A18788, AC004227, Y10655, S75997, AF162270, X66862, AF215669, 133391, AL133640, AF111851, X52128, AL117460, 117544, AL137256, AL122118, AF090901, A03736, AL137292, 168732, AF113691, L13297, AF111112, D83989, AF113694, Y10080, AL110222, AF036941, AL137640, X83544, 272491, AF210052, AL117583, AF031147, AL137459, X106146, E07108, AF090903, AL050116, AF058921, 1100686, AF040751, AL110228, AB030279, AF057300, AJ012755, AL137299, AL137479, AC002467, AL050170, AL080124, and AF169154
HDTDG42	1979	713588	1 - 445	15 - 459	AA218835, AA719073, AW270451, AC001226, AC000117, AC006262, Z81313, AL079295, AC004491, AL033527, AC002351, AC004381, AC006146, AL133245, AC002994, AL031594, AC005180, AC004929, AC004821, AC005829, AC005952, Z80232, AF196970, AC002563,

Clone	No.		1 -	15 -	Accession numbers
					AL049836, AC005585, AC008372, AP000201, AL049976, AC007225, AL031283, AF207550, AC005578, AP000097, AL080242, Z83844, AC004703, AF001550, AC005837, AL009181, AC005781, AP000043, AP000041, AC005089, AC007283, and AF050154
HDTDG70	1980	587730	1 - 418	15 - 432	AL022396.
HDTDL88	1981	868565	1 - 707	15 - 721	AI140351, AI859347, AA768342, AI864674, N80197, AA722381, AA130959, AI051671, AA043186, AA121548, AA987515, AA100477, AW193146, W94309, N21020, H94056, AI187288, AA844332, N21328, N47889, AI952434, AA975893, AA045508, H80056, AI354682, AA621534, AI859814, AW089493, AA530873, AW275917, AI025466, N92869, AA768339, AA417265, AI567303, AA828283, AI289086, AA729835, AI564973, AA580315, AI952495, AI419448, T40562, AI289415, AI039892, AI014387, AA917482, AW088039, AA587755, AW190165, AI371694, AI018462, AW377665, AI083853, AW103201, AA868207, H81296, AI920875, AI833059, AI288157, D12258, RG3140, AI942324, AI873582, AI699667, AI091426, AA127712, AW406948, D12293, AA074395, AA342276, AI955989, T91580, AI350331, AA053266, AW138496, AA342277, AI83296x, AW084334, T91268, AI816957, D12294, AW351513, R83013, AI868829, AI220723, AI202414, AI908913, AA353671, T98269, AI908912, AA193223, AI866230, AA807562, C75247, AI144368, AW377656, W22908, AW381854, AW381856, AI864799, AI802279, T91628, N74141, AI310801, AA788629, AI815642, AA370960, AA417302, AA894371, AA314322, AL122042, and AC007842.
HDTDP37	1982	571417	1 - 513	15 - 527	T12054, and T12053.
HDTDT33	1983	587773	1 - 541	15 - 555	AI365424, AA761247, AI270301, AA903663, AA461365, AI124751, AI493506, AA946682, AI739428, AI990438, AI112115, AI927968, AI638765, AI830148, AI739606, AI561007, AI934691, AF165522, and X56389.
HDTEI19	1984	912765	1 - 399	15 - 413	AL035965, and AC006501.
HDTEJ30	1985	915445	1 - 475	15 - 489	AW340512, AI807894, AW082409, AW054749, and R94399.
HDTEN69	1986	650840	1 - 618	15 - 632	W92422, and AA013353.
HDTES50	1987	964709	1 - 423	15 - 437	T86673, AW190189, and AI193121.
HDTFC55	1988	731397	1 - 560	15 - 574	R80296, AW235653, AI949101, AA470449, AC002044, AC005234, X54171, AP000348, AC006230, AC007129, AC005274, and AC004230.
HDTFD13	1989	835596	1 - 429	15 - 443	AI765425.
HDTFE23	1990	675407	1 - 360	15 - 374	
HDTFI53	1991	738221	1 - 108	15 - 122	
HDTFP51	1992	924898	1 - 491	15 - 505	
HDTFQ26	1993	681234	1 - 605	15 - 619	
HDTGE59	1994	893721	1 - 213	15 - 227	
HDTGI15	1995	953336	1 - 641	15 - 655	
HDTGJ03	1996	923452	1 - 615	15 - 629	

HDTGJ64	1997	799860	1 - 133	15 - 147	
HDTGK27	1998	682689	1 - 416	15 - 430	AA489578.
HDTGP34	1999	855739	1 - 562	15 - 576	R69491.
HDTGP93	2000	724545	1 - 227	15 - 241	
HDTGW21	2001	785047	1 - 369	15 - 383	AB007857
HDTGWS2	2002	726197	1 - 100	15 - 114	
HDTHA89	2003	838813	1 - 345	15 - 359	AA745404, N23046, AI057391, AA001345, AC003101, AC004526, AL031670, AC009721, AL109748, AC004256, AC004090, AP000152, AP000010, AL021155, AL022330, AC005007, AL023584, AP000546, AC005969, AC003086, AC000379, AL023553, AC006543, AC007283, and AC005011
HDTHB41	2004	711849	1 - 475	15 - 489	AR035806.
HDTHE95	2005	795180	1 - 494	15 - 508	AA847163.
HDTHK91	2006	789790	1 - 616	15 - 630	AC004611, AC005551, AL096701, Z97054, AC005529, AC003101, AC005527, AC005011, AF053356, AC004813, AC006965, AC004985, AC004167, AC002375, AC002565, AC005874, AF134471, AP000036, Z83844, AC003684, AC005622, AL132987, AC005837, AC005102, and AL049780
HDTHM43	2007	851854	1 - 483	15 - 497	
HDTHO45	2008	799861	1 - 163	15 - 177	AW089395, AI053518, AI345012, AI358008, AA837739, AA664248, AA610530, AW238137, AA837796, AA993165, AW238250, AA084950, N70293, AA599749, AL047254, AA594220, T05354, AI124706, AW161966, AA001398, AI683742, AA666066, AW440424, AI223626, AA583579, AW130446, AA583568, AI568849, AI274006, AI921692, AI567831, AI445768, AA86553, D25667, AI889648, AI613487, AI336206, AA654038, AA658918, AA047045, AI572680, AI884861, AL118567, AA774119, AW021519, AA649660, F03603, AI375036, AI083707, AI246061, AA599080, AA832124, AA832152, AA470958, I186399, H47461, AI205348, AL134332, AA224525, AL036070, AI054090, AI761566, AI114645, AI872117, AI744381, AI249853, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA304790, AA078088, AA295893, AA295899, H77666, AW149972, AA564682, AA593388, AI354341, AW327597, AA463289, AA911520, AI732682, AI869786, AI922583, AA347653, AA780648, AI521042, AW327555, AA167179, AI912505, AA078509, AA742775, H37892, AC002073, AL031284, AC004895, AC002347, AB020863, AL023880, AL049543, AL137474, AP000959, AC004522, AC007367, AC005274, AC004131, AC004859, AC005519, AF061032, AL031663, AP001052, AC005664, AC008134, Z98751, AC005924, AC004837, AC000097, AL031626, AP000379, AC002049, AC002054, AL117328, AC000025, AC005527, AL034555, AC004150, AC000379, AC007664, AC008018, AC005358, AL133216, AL080243, AL031332, AC004701, AC002472, AP000550, AC007664, AC007227, AC000083, AL031287, AL031775, AL035457, AL049569, AC006211, AL020997, AC007227, AC002312, AC007695, AL033517, AL021878, AC004686, AP000346, AC002312, AC005800, AL031848, AC006210,

Clone	No.	SeqID	Range	Range	Accessions
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HDTHQ15	2009	923899	1-599	15-613	AA215544, AA262119, D87446, and AF060565.
HDTHQ55	2010	799859	1-417	15-431	
HDTHW16	2011	799839	1-623	15-637	
HDTHZ46	2012	957669	1-362	15-376	H59787, AA911636, AA631183, AI025526, AI923762, AI740793, AA743390, AI202128, AI660488, H82705, and AI368872
HDTIB38	2013	971665	1-922	15-936	AI872294, AW207586, AW195605, AI693146, AW075561, AW068887, AA993676, AI758241, AI799473, AI031659, AI419921, AA961774, AI355364, AI190742, AW451406, AA598664, AA603695, AW057857, AI807320, AI510700, N50786, AA737532, AA766363, R68978, AI124003, AI445187, AW102731, H04784, AI122873, R69607, AI253794, AA897328, AA598571, AI540516, D19777, AI267421, N55144, H04882, AA334830, and AL135745
HDTIC48	2014	828038	1-406	15-420	H82510
HDTIC74	2015	838780	1-536	15-550	AA084725, AA189117, AL048925, AI801482, AI284640, AL016409, AI963720, AL042753, AA127353, AI679782, AI270117, AW406755, H71429, AI334443, AW419262, AW072587, AI431303, AI570261, AI133164, AW276827, AI368745, AA490183, AW193265, AI613280, AW302013, AL119691, AI364020, F36273, AA610491, AL043719, AW303196, AI281881, AI350211, AA523810, AW261871, AI858451, AI434695, AI358229, AA581903, AW301350, AI061143, AI567076, AI754336, AW327868, AI240168, AI143242, AI341664, AA984708, AW088846, AI538852, AA503473, AA649542, AA649484, AA491814, AI365988, AA578481, AL138265, AI471543, AA577906, AI061334, AW265393, AA680243, AW270270, AW274349,

AA665021, AI732120, AL042853, AAS21399, AI375710, AI754658, AL138455, AW410400, AW265385, AW407578, AW270716, AA446657, AW341900, AI718446, AI571512, AI289067, AW148792, F16127, AI355206, N27584, AA846929, AW438643, AA455483, AI688846, AI379719, AA402129, AI053672, AW161293, AA177061, AI110770, AAS84082, AA468746, AA613232, AA828042, AW301809, F29989, AI298710, AW023672, AAX77817, AW193432, AA649722, AAS87604, AA720702, AI669451, AAS21323, AI345654, AA132914, AI962050, AA493219, AI619997, AA657918, AI192631, AA678409, AW300625, AL038474, AW406447, AA806796, AI471481, AI148277, AI801591, C05755, AW162489, AI635818, AA468022, AI017415, AA470969, AA084070, AI696962, AW169537, AA630362, AA526779, AI633025, AI151261, AI871722, AI246119, AL044940, AL119984, AI561255, AAS15829, AAS07824, AI955323, AI358501, AAS25824, AA619642, C06339, AI307608, W79504, AAS99201, AA126051, AA126035, AW021207, AA610493, AA846935, AI287485, II13757, AL041690, AW265009, H72402, AA126450, AI921296, AA491284, AA682912, AI859742, AW103758, AA973803, AI610159, AI623720, AL137954, AI653886, AA613345, AA846907, AA601876, AA721056, AW089322, AW238278, AA613227, AW276817, AI076766, AA857486, AAS03119, AAS86458, AA623002, AI344844, AI744995, AL046205, AI921061, AA601253, AI358812, AAS87256, AA679514, AAX37718, AI635274, AL120687, AW073470, AC007421, AF001549, AP000134, AP000212, AC008134, AP000251, AL049776, AP000030, AC008040, D87675, AL132777, AC006948, AC007385, AC004890, AC004453, AC005089, AL132718, AC006026, AC000387, U11309, Z49258, AC004891, AC008372, AC007191, AC005037, X54175, AC006011, D83989, AL133245, AF015148, AF031078, AC005988, AC006116, AF030876, AC007216, U57009, AC005225, AF015156, AC005988, AC006116, AC002468, U18394, AC005041, AL031228, AC006111, AC004593, AL021808, AC006042, AL049539, AC005846, Z83826, U95742, AC004816, U80017, AC005372, AC004057, U18391, AC007455, AC005288, Z98051, AP000959, AC006479, AF152365, I51997, AC005335, Z82244, U67221, AL022163, AC003693, AL008715, Z99716, AL096701, AC007364, AC005015, AC005678, AC006254, AP000568, AL078581, AF129756, AL132712, AF131217, X54180, AC007885, AC006254, U85195, AL031427, X54178, AL121603, AF017104, AP000126, AP000204, AC004966, AC005837, AC008045, AC005585, AL031347, AC007666, AC008123, AC004491, X55926, AC005926, AC004615, AP000142, AC006064, Z94055, AC006157, AC004859, AL035422, AL049761, AC031577, AC003691, AE000658, AL096703, AC007308, AL008627, X54181, AP000557, AL031577, AC010170, AL049760, AC006313, U57007, AC007617, AC005808, AI006345, AL022476, AL121934, AC007537, AC006997, AC007298, AF124523, AC005778, AL023575, AP000124, AF045555, AC000118, AL121655, AP000244, U57005, AL049557, AC006965, Z85999, AC004531, U18393, AC007227, AC005324, AC015019, AL023656, AC006484, AC005632, AC006597, AC005215, AC005252, AC002377, AC005399, AC003956, AC007387, AF088219, AL049795, AC005829, AL035252, AC002377, AC005399, AC003956, AC007387, AF088219,

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HDTID61	2016	908946	1 - 730	15 - 744	AW439565, AI527530, AI887525, AI890158, AIX59703, AW118200, AA749212, AA430563, AA883993, AA029288, AI095763, AA043743, H03766, AI598263, AI634574, AI079917, AW243702, AA452390, AI634584, AA132551, AI610785, N51151, AA602187, AA971019, AI926025, AI279436, AI220990, AA388601, AW131171, AA969116, AI818902, H02869, AA579993, AA621433, AI922025, AA369249, AI469340, AA021150, AI300047, H88995, N47896, R70915, AA043742, AA912768, AI926028, AA937998, AA029756, AA834867, AI183313, AA342184, AI873839, AA433979, AA167094, AI017196, AA866089, AA993239, AW371991, AA028917, AI926057, AA91119, H88778, AA283401, and AA283400
HDTIF01	2017	883070	1 - 515	15 - 529	AA928105, R98945, AI110760, AL119762, AL041013, AI114869, AW075511, AW102811, AA806796, AA070456, AI133516, AI061646, AA767276, AAS24821, T74382, AI313166, AA219225, AA224525, AA601348, AI093030, AA083046, AA502104, AAS31580, AA836811, AA081825, T40308, AW151713, AA601294, AW440545, AA846568, AL046586, AW274346, AW161966, AA765736, AL138254, AW407632, AI471603, AA806799, AI499134, R80876, AI826263, T56253, N70044, R70821, AW407055, Z83819, AC004149, AC002301, AL080243, AC004150, AA614180, AA634889, H46122, D82542, AA664909, AI345654, AI708009, H40936, AA483929, AW103758, AI305766, AI284640, AW168453, AA121894, AL035659, AL121603, AC002470, AC004167, AL031846, AL035420, AC005412, AC007021, AC005280, AL096774, AC003043, AC006084, AC004738, AC003664, AL031255, AC000052, AL035400, AC007731, AL049780, AC005531, AL031767, AC007055, Z83819, AC004149, AC002301, AL080243, AC004150, AC005500, AP000553, AC002072, AC009516, AL034549, AC004263, AL139054, AC004019, AC006285, AC004675, AC004859, AL049758, AC005084, AC022721, AL035587, AC005411, AC005694, AP000966, AF088219, AC007216, AL022165, AC004695, AC003108, AC006042, AP000555, U80017, AC000026, U85195, AC006241, AL031447, AC004216, Z95118, AC009044, AL031577, AC005031, AC005670, AC000087, AC004797, AC004815, U727787, AC005911, AC007057, AL022316, AC005089, AC002476, AC005666, AC005003, AL022302, AL132712, AE000658, AC002059, AC004765, AP000133, AP000211, L44140, AL117347

HDTIF90	2018	787413	1-490	15-504	AC020663, AL121652, AC002456, AC006530, AC005479, AF067844, AC004099, AC005920, AF109907, Z81364, AL031680, AC005527, AL022238, AC005104, Z98051, AL049636, AF001549, AL009172, AC006441, AC004210, AC012384, AC004820, AL023575, AC002565, AC005081, AC003029, AL096712, AC003003, AC007226, AC007240, AC003690, AC002465, AC004990, AL121595, AL133371, AC002991, AL049759, AB023051, AC006211, AC005562, AC005075, AC005839, AC002310, AC007681, AL031685, AP000257, AC005150, U91322, AC007114, AF010238, U47924, AC005158, AL020995, AC005516, AF039907, U95742, AC005783, AC006026, AL133163, AC000025, AC007676, AL080317, Z99716, AC005037, AC005180, AC005913, AC005179, AC002067, AC005071, AC005620, AC008079, AC004890, AP000210, AP000132, AL049776, Z94721, AC006205, AC012368, AC005353, AC006450, AC004835, AC005529, AJ011930, AC004099, AC004913, Z95114, AC007193, AL109865, Z83822, AF172277, AP000098, AC005360, AC007050, U95740, AL022476, AL112777, AC007842, AC004878, AL034420, AL008725, AP000116, AL121655, AC005015, AC006271, AC004098, AL031681, Z86090, AC004970, AF024533, AL008718, AC005154, AC006130, AC008372, AC006126, AC007243, AC004686, AC003086, AC006365, Z93017, AL022326, AC007160, AL031666, AC004690, AC007685, AL049766, AC005207, AJ246003, AC004525, AC004681, AL050318, AC006459, Z82244, AC002070, AC003065, Z93930, AC005902, AF121781, AC005829, AC005067, AP000354, AL022163, AC005815, U52112, AL049709, AC004814, AC005776, AC008417, AL031284, AC005701, AL049539, and AP000502, AC004477, AL023494
HDTIG34	2019	799851	1-417	15-431	AL134148, AL119391, AP000356, AC004820, AR060471, AC005940, AC004253, AL035684, U29953, AP000212, AP000134, AC002287, AC005015, AC003043, AC005412, AC004672, AL117337, U91321, AC007425, AL035086, AF205588, AC004216, AC005179, AC004098, AC007676, AC005037, AP000349, AC016027, AC016830, AL133396, AP000252, and AL079306.
HDTIH43	2020	935643	1-536	15-550	
HDTIM13	2021	926952	1-439	15-453	AA437170
HDTIR88	2022	931122	1-680	15-694	AI742572, AI819310, AI373601, AI458037, AI478168, AW242260, AW182412, AI628739, H96226, AA911198, AW237157, AA621899, AI963732, AA036662, AI699482, AA935821, and AI560638.
HDTIV22	2023	883109	1-398	15-412	
HDTIV37	2024	799867	1-590	15-604	AI110718, and AC006121.
HDTIV62	2025	799835	1-639	15-653	AA290838
HDTIW03	2026	922928	1-471	15-485	AC003992.
HDTIX57	2027	799828	1-596	15-610	AI60431, AA705801, and AF112299.

HDTIY24	2028	799854	1 - 391	15 - 405	AW392670, Z99306, AL119457, AL119484, AL119399, AL119391, AL119363, AW372827, AL119497, AL119443, AW363220, AW384394, AI142132, AL119319, AL119341, U46351, AL119324, U46346, U46350, U46347, U46349, AL119355, AL119444, AL119496, AL119483, U46341, AL119439, AL119418, AL119399, AL037205, AL119401, AL134518, U46345, AL119396, AL134538, AL042965, AL042450, AL042614, AL134525, AL134536, AL042970, AL042975, AL042084, AL042544, AL043029, AL043019, AL042542, AL042551, AL043003, AL119464, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.
HDTIY26	2029	799855	1 - 409	15 - 423	
HDTIY41	2030	799853	1 - 641	15 - 655	AA281844, AI284640, AA862227, AI133164, AI281465, AI471481, AI291124, AI282832, AI291268, AI341548, AL046409, AI266133, F36273, AA340747, AI298710, AW157005, AI341664, AI289067, AW193432, AI431303, AA491814, AI688846, AW439558, AA992126, AI358343, AA133986, AA582554, AI028510, AW276827, AW193265, AI536625, AW339568, AI061334, AI340453, AI761471, AW419262, AI350211, AW276435, AW166815, AA984187, AA284184, AI587583, AI587565, AI963720, AA865262, AI754658, AI613280, AL041706, AW274072, AI610159, AI079910, AI004591, AW008317, AI334443, AI569086, AW191609, AI801591, AI053672, AI358801, AA719805, AI040054, AI198376, AA649642, AI085719, AI830390, AF150152, AA350859, AI375710, AI814735, AI937850, H79308, AI143242, AI344844, AA347927, AI653886, AA669840, AA657835, AI619497, AW166611, AI832865, AI246996, AI460050, AW188976, AI049634, AI709365, AW276817, AA977743, AI246796, AL043578, AI193007, AW131457, AI371070, AW021917, AI285696, AA347930, AW410400, AI434695, AW302013, AW406447, AI590958, AA557686, AA713815, AI590772, AI884487, AW055226, AI589230, AI653515, AW341903, AW088058, AI676218, AL042753, AI379719, AA593471, AA121777, AW265385, AL048925, AC005324, AC004796, AC006125, AL135744, AAC009516, AC005696, AL133245, AC005332, AC003603, AL049766, AC005913, AL132777, AC004987, AC005740, AF109907, AL022163, AC002402, AC004963, AC006597, AP000557, AD000092, AC005412, AL031667, AC006312, AC012627, AC005699, AC004534, AL008718, AC005180, AL031054, AC000353, AC007842, AL033376, AL021808, Z93930, AC010186, AC005725, AL049836, AC005598, AC003684, AC004638, AL035420, AP000558, AC004675, AL035072, AP000959, Z95152, AC006126, AC005670, AC008249, AC004825, AF088219, D00591, AC005736, AC006480, M87914, U52112, AL023494, AC004998, Z99716, AC005006, AC005237, AC005531, AC004386, AC016831, AC005519, Z97184, AL050332, Z93017, Z98950, AC007793, AC006251, AC007637, AC005253, AC007151, AC002398, AP000216, AC005387, AL079340, AP000553, AC006050, AL078476, AC004876, AP001053, AC004929, Z93241, AC006211, AC004858, AC008056, AC007191, AC005154, AP000692, AL049745, AP000047, AC007227, AC003119, AL132904, AF047825, AC006999, AC002307, AC005274, AC005071, AC004895, AL049830, AC009227, AC005089, AP000115, AL031432, AC012085,

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HDTIY69	2031	799857	1 - 493	15 - 507	
HDTIZ44	2032	925574	1 - 388	15 - 402	AA736584, AW075941, AI803986, AW075748, AA480329, AA804593, AI214324, AA907245, AA905861, AA806181, AI825149, AI479015, AI766668, AI312426, AI334900, AI334929, AI250558, AI334885, AI379810, AI307204, AI309438, AI340732, AI349156, AI334899, AI271248, AI307713, AI224312, AI307488, AI223564, AI053668, AI223777, AI340417, AI349701, AI349296, AI134999, AI926593, AI040620, AI696583, AI039086, AI474093, AA648441, AI250646, F37409, AI633061, AI500658, AI918424, AA768725, AW169654, AI587489, AI421149, AW020619, AI249375, AI702527, AI866573, AW080157, AA776230, AI879377, AI421662, AW020381, AI638582, AC004687, AL133607, Y10080, L40386, AF067728, I42402, U76419, AL050393, AF107018, AF004162, AF013249, AF044221, AF105427, AF074604, AL117590, S69510, L24896, Z82022, A41575, AL137463, X98066, A83556, I29004, X66417, X60769, AL133608, Z49258, AF084644, AF084645, U80742, AL133049, AF112208, AR012379, AL133557, AF199509, E13998, AF126372, AC005156, AL080124, and AF038847.
HDTIAS4	2033	799856	1 - 66	15 - 80	
HDTICS1	2034	799850	1 - 313	15 - 327	
HDTJI16	2035	918631	1 - 846	15 - 860	AW117866, and AA279393.
HDTJI37	2036	799834	1 - 539	15 - 553	R33692.
HDTJJ02	2037	913787	1 - 163	15 - 177	

HDTJJ55	2038	856558	1 - 1012	15 - 1026	AI123328, AI761674, AI028395, AA883324, AI494492, AW340221, AI082842, AI739107, AI350566, and AI219506.
HDTKS1	2039	851897	1 - 574	15 - 588	AA631810, AA847102, AA570673, AA484892, N76216, T48723, F27015, AI683552, AI624551, AL044271, AF121178, AA558366, AI446205, AW270768, AW080074, AI814059, AI291037, AA603400, AA297195, AA968309, AW277174, AI636439, AA502110, F32248, AI620808, AL045298, AA535494, AA493840, H72688, AI245423, AA503144, N25079, AI890688, AI890102, AA835814, AW189550, AI889580, H85059, H71642, AI075876, C13996, AI469577, AC005529, AC007314, AC007676, AD000813, AC004882, AC002115, Z97055, AC008071, AC002465, AL078638, AC002302, AC006398, AC005332, AC006139, AC005690, AC004671, AC005012, AC004874, U91323, AL034423, AC007529, AC004862, AC002480, AC005235, Z83822, AL035361, AC004381, AC005183, U91319, AC003957, AP000282, AP000514, AC006064, AP000108, AP000466, AP000108, AC007425, AC000926, AC004616, AB020865, AC007450, AC005041, AF049895, AC002059, Z97876, AL033376, AC005018, AL034379, AL035089, AC004887, AL009181, AC005598, AC003976, AC006547, AC005049, U95740, AC004834, AL008718, AL008729, AC007011, Z84480, AL021707, AC004033, AL031728, AC002288, AC005011, AC005046, AP000120, AC005409, AC006213, AC000072, AF001548, AC005701, AC000120, AC005243, AL122020, AC004551, L77569, AC004865, AL121653, AC005104, AL021995, AL034555, AL133445, AL132987, Z85999, AC004098, AC005004, AF001552, AC004808, AC002496, AC004963, AB001523, AC006359, AL035072, AP000030, AP000212, AP000114, AL117375, U89335, AL020989, AC009464, AF205588, AC005393, AL022162, AC007860, AC006013, AC004982, AC006430, AF227510, AL121754, AC009263, AC004073, AC006947, AC004594, AC004895, AC002563, AC006544, AL035633, AC005881, AC004216, AL021940, AC004542, AL021395, Z98200, AC007617, AF099810, AC003682, AC004694, AL031643, AL022328, Z84466, AC009225, AC007371, U52111, AL031904, AC006006, AP000088, AC004745, AC005971, AP000011, AP000153, AC007664, AL009179, Z81365, AC009733, AL031673, AC009247, AF019664, AC005086, AP000031, U91318, AL021877, AC005548, AJ004799, AC003106, AC004876, AL049778, AF047825, AL034343, K03021, Z85989, AF045450, and AP000152.
HDTJQ18	2040	805597	1 - 508	15 - 522	AC010196.
HDTJT70	2041	918563	1 - 1094	15 - 1108	AA399660, and AA397890.
HDTJL06	2042	934242	1 - 412	15 - 426	
HDTKP88	2043	799865	1 - 566	15 - 580	
HDTKQ14	2044	886936	1 - 541	15 - 555	AL023653, and AL049683.
HDTKS28	2045	885471	1 - 512	15 - 526	W07055, N98814, R19346, AA461032, Z20457, W93772, W77921, AF155739, and AL050171
HDTKI06	2046	934269	1 - 722	15 - 736	AL037304, AI184565, and AC004492.
HDTKX89	2047	799829	1 - 690	15 - 704	
HDTKZ74	2048	799842	1 - 626	15 - 640	AC006378.

HDTLA08	2049	958307	1 - 480	15 - 494	AI299823, AA918074, AA134073, AA484892, AA878492, W60522, AA526413, AI150934, H86399, AL049539, AF129756, AC005800, AC004929, AL080243, AC007688, AC002316, AC000353, AC005095, AC005971, AC006006, AC004216, AC002369, AC004491, AL020997, AF053356, AL096712, AC017685, AC005231, AL100938, AL132712, Z98946, AC007386, U96629, AL139054, AC005082, AL049569, AC004832, AC005529, AL024498, AL031591, AC011198, AL022320, AC006312, AC007684, AL035455, AL050308, Z84487, Y14768, Z97053, AC004858, AP000505, AC007057, AL049872, AC005207, Z93241, AC004882, AL121871, AC002395, AC002310, AC005899, AC005004, AF109907, AP000555, Z80897, AC002477, AL031297, AL109653, AL023396, AC005933, AC004025, AC004685, AC005332, AC005696, AL035494, AL033392, AC007283, AC007425, AF067844, AC005911, Z98742, AC004921, AC007536, Z82208, AC002985, AC020663, AL049712, AF134726, AC008067, AC002301, AL109627, AC003665, AL133216, AL132777, AL049760, AL021937, AC004531, AC007160, AC002347, AL109181, AC004448, AC004655, AF064861, AL031733, AC005566, AL109628, AC005694, U07000, AL034553, AC005837, AC002312, AC007707, AC005015, X03120, AL035681, Z98750, AL034429, AC004854, AF196779, AC005690, AC005924, AC006333, AC002126, AL021391, AC005740, Z98745, AC007324, AL031005, AL035587, AC002425, AF165926, AC007488, X01392, AL117258, AL031277, AC005261, AF045555, AC004036, AC005527, AC005224, AC005225, Z54246, AC007690, AJ010770, AC015853, AL136295, Z93023, AF111169, AC004013, AC006079, AC005041, AL031282, AC007014, AL049795, AC005678, J00098, AC002565, AC006211, AL121578, AF047825, AC005736, AL022324, AC006449, AL049589, AL135744, AP000350, AL031311, AL049869, AC002365, AC005049, AC005846, AC006576, AC006064, AL031657, AF207550, AP000557, AC005632, AC000379, AC006236, AL121603, AC004659, AL031283, AC004149, AC007226, U89337, AC006459, AP000358, AC004099, AJP000251, AL000091, AC006251, AL096763, AC006538, Z97055, AC005081, AL049830, AF196969, AC005668, AC007240, AL035664, AC005821, AC005914, and AP000141.
HDTLA53	2050	851826	1 - 635	15 - 649	RS4200, H04999, AA179219, M62122, AA143551, W24376, and AA376209.
HDTLBS5	2051	905872	1 - 558	15 - 572	W27300.
HDTLD17	2052	908601	1 - 654	15 - 668	W27300.
HDTLH19	2053	959932	1 - 279	15 - 293	
HDTLKS1	2054	851846	1 - 524	15 - 538	AI349849, AI590485, AI345695, AI345366, AI310873, AW168420, AA582073, AA605272, AI755214, AI754105, AA809546, AA829044, AA228349, AA953238, AA282820, AL042635, AI754567, AA515905, AA126450, AA748833, AA744018, AA244339, AA410828, AA828834, T11828, AC004832, U91326, U91321, AC004525, AC007708, AC005081, AC005015, AL049832, AC002544, AL022336, AC005089, AC002407, AC003982, AC006236, AC002351, AC007981, AC007324, AC006537, AP000130, AP000208, AC007325, AC005884, AC007879, AL021546, AL049780, AF001552, AL049539, AL121580, AC004856, AC006441, AC004848, AC004929,

Name	No.		1-	15-	Accessions
HDTLN80	2055	805562	1-605	15-619	AC006261, AC006039, AL035659, AC005874, AF134471, AL109865, AC002402, AL035495, AC000029, AC007327, AL050318, AP000503, Z82190, AL031730, AC004820, AC006023, AC002350, AC008372, AC006948, AL035086, AC004494, AC004149, AL109628, AC008109, AP000550, AL035045, Z92542, Z84466, AF109907, AC007686, AC002302, AC005580, AC000117, AC005410, AL031680, AC005332, AC007899, AC008132, Z97056, AC004382, AC005324, AC006011, AC002477, AC005919, AP000513, AC009263, AC007676, AP000694, AF024533, AP000246, AF047825, AC004813, AC005952, AC002996, AF048729, AC007358, AC006116, U96629, AC002045, AC007846, AC005538, AC006343, AL031594, AL133448, AL049636, AP000354, AC005841, AC007649, U47924, AF196969, AL024429, AL008715, AL009181, AL049569, AC012039, AC005482, AC005225, AC008018, AC005011, AC004675, AC004987, AF134726, AL021154, AP000350, AL049830, AC007367, AC007566, AL049869, AC008079, AL021707, AC005358, AL078477, AC002352, AC018633, AC006487, AF004972, Z86064, AC005412, AC004106, AC004249, D87675, D87675, Z93023, AC005228, Z95329, AL020997, AC005914, AL049793, AC007114, AL008718, AP000152, AL031313, AL049760, AF088219, AC007564, AC005368, AC003046, AC002511, AC004605, AL022165, AF029308, AC005666, AP000213, AC007055, AC003010, AC002470, AC007488, AL121754, AB001523, AC005050, AC009363, AC005722, AB023048, AC004975, AP000031, AC002565, Z85986, AC004491, AC004801, AL133246, AP000135, and AC009288. AW372827, AW392670, AL042978, AL119443, AL037205, AW363220, AW384394, U46341, AL119319, AL119497, U46351, AL119324, AL119457, Z99396, U46349, AL119341, AL119484, AL119391, AL042965, AL119496, U46350, U46347, AL119355, AL119363, AL119444, AI42132, AL119483, U46346, AL043205, AL119335, AL134524, AL119439, AL119401, AL134902, AL134528, AL119399, AL039851, AL119522, AL134525, AL119306, U46345, AL042850, AL119464, AL119418, AL134536, AL134538, AL042973, AL043003, AB026436, AR054110, AR060494, AI81671, AR060234, and AR060079.
HDTLP72	2056	799837	1-343	15-357	AP000224, and AP000086.
HDTLX24	2057	799838	1-615	15-629	AL049631.
HDTMG55	2058	959633	1-494	15-508	AF067844, and AF143316.
HDTMH14	2059	799847	1-457	15-471	AC003695, and AC002091.
HEIAA07	2060	920257	1-300	15-314	
HEIAA38	2061	907594	1-332	15-346	
HEIAB13	2062	677400	1-339	15-353	R32529, W95563, T85989, AA316471, AA046628, AA152270, T87538, AA150254, H67429, R68856, AW406467, T97847, H95214, H58974, H94342, R98261, T99568, T87539, and AI991836.
HEIAB27	2063	683474	1-313	15-327	AA768235, AA768974, AA767660, and AF033033.
HEIAB68	2064	721652	1-68	15-82	
HEIAC83	2065	920022	1-148	15-162	AI890971, AA323085, AA323999, R37547, AA196160, H04821, N83628, AA687084, AA502236,

HEIAD05	2066	932397	1 - 295	15 - 309	AA555085, AL134615, AI127133, AW439625, AI962973, AW439820, AI859849, AA683037, AI081241, AI052770, R69109, AA625787, R66922, AA744098, AI702164, AP000555, AL049563, Z86061, AL015417, AC007842, AC005043, AF001552, AC005233, AL109918, AF121782, AL034423, AC005180, AL031407, AC004682, AL031003, AC007052, AL050325, AC004931, AP000151, AL139054, D82253, AF064857, AC049955, AL031430, AP000009, AC005229, AL022328, and AC009396.
HEIAE05	2067	932390	1 - 211	15 - 225	
HEIAE76	2068	577254	1 - 287	15 - 301	AA659298
HEIAG38	2069	577308	1 - 372	15 - 386	AI688963, AA108708, AW020449, AI914747, AA325521, AI537814, AI811076, AA658101, AA452879, N55560, AI261932, AI863180, AL044468, AI888705, AI755057, AA767864, AI801031, M85082, AI140609, AW079345, AI580252, AI111171, AI684349, AA668736, AA121818, AA227741, AI434725, AI188963, AA419521, AA406457, R71593, AA278573, AA078248, AI798234, R12683, AL078602, AC001556, AP000499, AC003665, AB026898, AL031428, AF008243, AC004104, AC005081, AC005015, AC004167, AC008015, AP000160, AP000018, AC003950, AC004104, AC001228, AP000555, AC004787, Z54246, Z95331, AF001549, AL139054, AC005581, AL049745, AC001228, AP000555, AC007242, AC004990, AL133241, Z93244, AC002430, AP000553, AC005089, AL020997, AC007384, Z49862, AC007666, AC007277, AC000052, AC004019, AL132777, AL050317, AL022316, AC005513, AC005409, AL008716, AL024509, IJ82828, AC004876, AC004032, AC004143, AL031779, AC005545, AC008372, AC007011, Z68162, AC003966, AC004738, AC005670, AC002301, AC004878, AL031277, AC018633, AC005781, AP000557, AB017335, AL031680, AL049636, AC000353, AC006111, L34079, AC000404, Z84466, AC005666, AP000167, AP000013, AP000155, AL050318, AC005837, AL023807, AC005562, AC004084, AI006216, AC005257, AP000171, AP000056, AP000124, AC004865, AP000330, AC008116, AC005325, AC007773, U91321, AC004752, AC005049, AC006344, Z98941, AC004638, AL035413, AL109865, AF024533, AC002511, AC002996, AC005088, AC004985, AC004884, AC007376, AJ011930, AC006241, Z93784, AC003077, AP000067, AC005231, AC010205, AC005482, AC005391, AC004777, AC005796, AF051976, AL117375, AL050327, AL009181, AC009320, AL008639, Z85987, AC007558, AL049709, AC005086, AP000432, AC004453, AC007546, AL049553, AC006536, AC004841, AL080317, AC007390, AC005914, AC006531, AL031848, AC020663, and AF001551.
HEIAH70	2070	757174	1 - 330	15 - 344	
HEIALS3	2071	466308	1 - 420	15 - 434	
HEIAO01	2072	916438	1 - 290	15 - 304	AC006241, U47024, AL035400, and Z97053.
HEIAO14	2073	851197	1 - 398	15 - 412	AI445914, H81732, AI096738, AA230155, AI963183, AI811783, AI358842, AA501781, AA746939, AI380617, AW008161, AW008161, AA837000, AA654874, AL038842, AA776651, AA745096,

HEIAO48	2074	917281	1-366	15-380	AI921348, AI683131, T98915, AW023515, AI345497, AI690497, H73580, AL041458, AI624421, AI459943, AP001053, AC007382, AC006455, AC004817, AC005746, U07562, U85195, AC002563, AE000658, AC005578, AC004167, AL078595, U91629, AC005037, AC010170, AL022163, Z86064, AC005355, AP000310, AC004620, Z69721, AC004854, AL031666, AC005391, AC005379, AL049692, AL035604, Z92845, AC002470, AC003108, AL109758, AL049874, AC005088, Z54146, AC002395, AC007199, AC005529, AC005412, AC006125, AC007308, AC005596, AC007110, AC004561, AC004887, AL034417, AP000699, AI022153, AL023913, AC004644, AC005913, U65896, AL035420, AC007151, AC004813, AC005393, AC004139, AL021154, AC003963, Z83845, AL096701, AC004132, AC005049, Z93017, AC006111, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z93244, AF030453, AC007002, AL133245, AL049811, AC004067, AF196779, AC006057, AC005037, AC005162, AL035455, AC006262, AL031846, AL031664, AL031286, AL021707, AC004125, AC006538, AL031311, U91321, AC005832, AC000039, AC002117, AC002302, AL096801, AC003109, AL135746, Z97053, AC005383, AC005383, AP000283, AC007388, AC005387, AP000284, AC005070, AL031432, AC008033, and AC009174
HEIAO51	2075	725649	1-210	15-224	AA353129, AC002310, AL031295, and AL009174.
HEIAT07	2076	953574	1-348	15-362	AL023096.
HEIAT36	2077	576598	1-497	15-511	AW293633, and E87470.
HEIAU68	2078	753000	1-211	15-225	AI610108, AW130937, AA829185, AW197946, AC004540, Z98751, and AC009498.
HEIAV20	2079	523766	1-346	15-360	AI633518.
HEICC82	2080	781171	1-371	15-385	AI910620, AC005520, AL031432, AC004876, AC008124, AC005871, AC005822, 277249, AC004985, AL109758, AC000353, AC004984, AC002378, and AC006111.
HEQAB19	2081	939448	1-308	15-322	AW238796, AI446252, W47453, and AB011164.
HEQAD29	2082	690762	1-487	15-501	AW118893, AA448473, AI376031, AI911852, NS1619, AA993690, AI818630, T15650, AI014894, AA452607, AA432010, AI968348, and R43403.
HEOMC23	2083	850094	1-391	15-405	AW118893, AA448473, AI376031, AI911852, NS1619, AA993690, AI818630, T15650, AI014894, AA452607, AA432010, AI968348, and R43403.
HEOME43	2084	967292	1-1957	15-1971	AL043294, AL045350, AI190043, AI553975, AL043295, AA837456, AI678979, AA610597, AW118951, AA916395, AI022758, AI809435, R46582, AI688011, R82289, AI909854, AA426089, AI540672, R21690, AA634501, AI286300, T96008, AA477176, AI589160, AI024524, AI866060, AI394226, and AW299557.
HEOMF61	2085	573059	1-431	15-445	AI035091.
HEOMG01	2086	916672	1-490	15-504	AC004884
HEOMG04	2087	922824	1-67	15-81	AC004997, and AC005585.
HEOMG16	2088	933969	1-464	15-478	AI546993.
HEOMG25	2089	678190	1-695	15-709	

HEOMG32	2090	699343	1 - 410	15 - 424	AC005247.
HEOMG48	2091	963338	1 - 470	15 - 484	AW170594, AI632286, AA319071, AF000504, AF129756, and AF109905.
HEOMG78	2092	920991	1 - 831	15 - 845	AA206565, R98750, and R71112.
HEOMH04	2093	854342	1 - 1294	15 - 1308	AA878325, AI467795, H60658, AI142916, H59844, and R48574.
HEOMH31	2094	951834	1 - 589	15 - 603	AE011169.
HEOMH77	2095	721342	1 - 401	15 - 415	AA749137
HEOMH89	2096	787109	1 - 358	15 - 372	AI768609, AA350845, AI140661, AW207100, AW382915, R85713, AI880236, H38087, AI984926, AI828532, and AJ245621.
HEOMK83	2097	918374	1 - 480	15 - 494	AB029488, and AC002536.
HEOML13	2098	893874	1 - 340	15 - 354	AC002425, and AC002544
HEOML73	2099	724043	1 - 405	15 - 419	
HEOMM10	2100	964736	1 - 364	15 - 378	
HEOMN02	2101	913819	1 - 548	15 - 562	
HEOMO43	2102	855659	1 - 412	15 - 426	
HEOMO57	2103	795128	1 - 472	15 - 486	
HEOMP31	2104	698087	1 - 364	15 - 378	H64717, and H65208
HEOMP73	2105	750609	1 - 407	15 - 421	AL008628.
HEOMQ17	2106	851049	1 - 630	15 - 644	AA523718, AA565660, AL042630, H55927, AW117723, AW117704, AI287787, H74201, AA528557, H62615, AI914558, AA206036, AA348884, AI473501, AC006566, AC005837, AC003663, AC007016, AC008372, AC004193, AB023057, AP000520, AC007390, AC007189, AI239321, AL034350, AC002487, AC005668, AC006992, AC004653, AC005838, AC004079, AC005915, AF055066, AF054594, AF035666, AC007652, AP00008, Z79028, AC005823, AC004134, AL049697, AC005821, AC004531, and Z82198
HEOMQ75	2107	965882	1 - 560	15 - 574	AL033522, AL137100, AC005089, AC005899, AC004031, AL080243, AC007688, AC007707, Z82178, AC004686, AC005488, AC022517, AC006581, AL031662, AC005072, AC005529, U91323, AC004963, AL009181, AC002425, AL031659, AC004878, AC005722, AC004531, AC003101, Z84466, AC005015, AC004616, AC004966, AC005800, AF016752, Z84487, AC005996, AC002300, and AC005479
HEOMQ80	2108	835599	1 - 431	15 - 445	
HEOMR13	2109	657317	1 - 657	15 - 671	AA136577, AI806102, AI086830, AW080440, AW130093, AA129563, AW402817, AW025074, AA101113, AA502991, AW148507, AA630672, AA837087, AW403644, AA127426, AA483108, AA809546, AW177794, AA858372, AW177801, T77680, AI627614, AI611960, AI583255, AW328000, N23504, AI524360, AW128884, AW128900, AA634837, AA654661, T06917, AA455483, AI537458, H68017, N58329, AA633762, AI002744, AL037052, AA326139, AA552955, AA402129, H25921, AA331301, AI907530, AI086646, AA487872, AA845659, AA380354, AI656774, AL119600, AA773463, AA847095, AW250026, AA551181, AA629872,

HEOMR57	2110	575739	1-298	15-312	AA092571, AW081303, H82185, AA345064, AA663512, AL046402, AA769429, AL045954, AA070345, AA828637, AA493136, AI638635, N71685, AA847096, AI798493, AA370455, H12383, AA807583, T47084, AW270258, H93097, AW168520, AL009182, AC007461, AC004963, AL034401, AC004655, AC005191, AL031033, AC005602, Z82214, U15177, Z98036, U81031, AC000028, AC002070, AL049778, AL122021, AC007381, AC005796, AC006323, AC009044, AC006057, AL049540, AF165142, Z93241, AL080285, AL121877, AC002527, AL008719, AC006312, AC004497, AC002106, AL049036, AC005207, AC005949, AC006125, AC005626, AC005955, AC005756, AP000096, AL035701, AP000240, AF062291, AF015262, A1229041, Z83844, AC000029, Z83822, AL050338, Z98752, AF200465, AC007057, AL049872, AR036572, U91328, AL021397, AC002073, AC007226, AL035089, AC005730, AP000362, AL031297, AC004000, AL021154, L78810, AL121782, AC005377, AL021546, AC006552, AC005214, AC006365, AL133353, AC005011, AL022721, AC004612, Z69719, AC007774, AL049576, AC004548, AL035460, AL031667, AC004098, AP000067, AL049569, AC003101, AL031186, Z69917, Z82976, AL035681, AF017115, AL033376, AC005245, AC005366, AP000563, AL021330, AC006039, AP000246, AP000211, AP000133, AP000208, AP000130, AL049539, Z86061, AC004525, Z94721, Z84487, AC005529, AC005726, AC004966, Z69925, AC002288, AC007205, AL008637, AL031597, AC002299, M63796, AC005924, AL030995, AL023553, AL078639, AC007227, AC006273, Z81364, AC006958, Z98744, AC005476, AL049861, AF064858, AC006165, AC000070, AF049895, AL033527, U91321, AF002991, AC004152, AC007191, AC003109, AC004522, AL022158, Z98046, AC010170, AC009330, AC005081, AL031311, AL133163, AC006515, AC004531, AC005082, AC004685, U71218, Z81000, AC006930, AC005578, AC005838, AL121591, AC004707, Z97056, AL110502, AC006487, AC004999, AC006013, AC006950, AC005952, AP000255, AC004814, AP000213, AL096763, AC004070, AP000135, AP000031, U91326, AL022318, AC006313, AB023051, AC004644, AP000251, AP000030, AP000134, AP000212, AC004542, AL132642, M87914, AL008723, AC005500, AC004821, AL031985, AF135025, AF084941, AF052685, and D86992.
HEOMR92	2111	963130	1-397	15-411	AF150377.
HEOMR96	2112	855652	1-646	15-660	
HEOMS08	2113	959581	1-193	15-207	
HEOMS65	2114	969184	1-474	15-488	AA355836.
HEOMS85	2115	662928	1-400	15-414	AC003695, and AC002091
HEOMS92	2116	735720	1-341	15-355	AI377718, AA810404, AA810193, AI919569, and AA732716
HEOMT38	2117	850980	1-433	15-447	AA281379, and AA805453.
HEOMT79	2118	936687	1-502	15-516	T87253, U73628, and AC002554.
HEOMU07	2119	953475	1-244	15-258	AC012085.
HEOMU23	2120	675971	1-374	15-388	R25873, AA730123, AI979259, AI982610, AI985694, AW130285, AL022067, and U08185.

	2121	965900	1 - 543	15 - 557
HEOMU79	2122	847274	1 - 282	15 - 296

AL048427, AL119511, AW151974, AI434242, AI538850, AI538885, AI872423, AI690472, AI445620, AW058275, AI866469, AI500714, AI589991, AI860003, AI432644, AI440260, AI537677, AI494201, AI804505, AI500659, AI815219, AI866465, AIK15232, AI801125, AI866691, AI500523, AI887775, AI582932, AI923989, AI284517, AI590043, AI500706, AI445237, AI491776, AI926593, AI289791, AW151138, AI889189, AI521560, AI500662, AI284517, AI539800, AW172723, AI582912, AI284509, AI889168, AI440263, AI927233, AI866573, AI633493, AI434256, AI805769, AI888661, AI952433, AI284513, AI888118, AI285439, AI436429, AI889147, AI623736, AI355779, AI581033, AI371228, AI491710, AI440252, AI431307, AI282249, AI440238, AI567971, AI866786, AI610557, AI431316, AI242736, AI539260, AI828574, AI887499, AI539781, AI431238, AW081122, AI702065, AI539707, AI885949, AW089557, AI559957, AI285419, AI521571, AI469775, AI866581, AW074057, AI815150, AI567953, AI446495, AW151979, AI867068, AI225248, AI358271, AW151132, AI698352, AW022636, AI890907, AI225000, AI371229, AI431323, AA477608, AL042365, AW162213, AI538881, AW079432, AI923061, AI687614, AW194509, AL047422, AI539771, AI891102, AI879377, AL047398, AI866458, AI469764, AI371251, AI866510, AI623302, AW081133, AI538764, AI866461, AW151136, AI923046, AL043152, AI554485, AI887785, AW130168, AL043168, AI049859, AL041862, AA651819, AI561170, AL048403, AI690946, AI889191, AI648567, AL042686, AL046356, AI433157, AI610426, AI554821, AL045500, AI589947, AW129310, AI819963, AA729782, AL119457, AI312428, AI540446, AI564459, AI273179, AI934000, AI368816, AI371243, AW058279, AI434240, AL042533, AI702406, AL039390, AW080700, AA641818, AI671642, AI860865, AA878808, AI961589, AA738104, AI582910, AI687587, AI798359, AI500683, AW079158, AI564470, AI493559, AI042655, AA939199, AI355008, AI521566, AI499104, AI274759, AL046990, AI630898, AL042416, AI539863, AI366900, AI433976, AL045466, AL042488, AI924051, AL043089, AW161202, AI049850, AL047611, AI469516, AW071349, AI349245, AI561177, AW020419, AW082113, AL034059, AL047611, AI049207, AI582926, AI049851, AI491904, AL040844, AL043321, AI365256, AI565932, AW080565, AA070889, AA575874, AI499463, AA648480, AL045626, AW191003, AI355126, AI537187, AI564500, AL045166, AW197139, AI554981, AI240602, AI610362, AL042544, AI440239, AI567961, AI521596, AI436438, AI828572, AI275175, AI521589, AI110500, AI537273, AI537191, AW151970, AI371265, AI436456, AL046681, AL039287, AW094595, AI887765, AI963846, AI049856, AC015853, AF055917, AR034821, AL080129, AF100781, AL050092, A58524, A58523, U30290, E125K0, AL122049, AL117460, A45787, AL133049, AL133084, AL133070, E12579, AR011880, I4K97K, AL133053, AL137558, AL049423, AF118090, AL133015, AL133608, AL110159, AL137656, AL035458, U49434, X67813, M79462, D44497, AL049314, AL122101, AL096720, A08910, AL050024, A08909, AF084644, AF084645, AF114168, Y11254, U77594, AL122100, A08908, U68387.

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HEOMV16	2123	958211	1 - 452	15 - 466	F11697, AA194124, AC005999, AC006547, AC005663, AC005664, and AC005160
HEOMV54	2124	866586	1 - 518	15 - 532	AI819924, AI139693, AA658096, AW340876, AW196652, AW388936, AW117675, and AI146863.
HEOMV81	2125	915093	1 - 491	15 - 505	Z85996
HEOMW26	2126	418125	1 - 386	15 - 400	
HEOMW83	2127	659808	1 - 341	15 - 355	
HEOMX04	2128	615337	1 - 287	15 - 301	AI309389, N49368, AI433008, AI344822, AI611016, AA618452, AI271126, AL137998, R69717, AI744826, AW269117, AW385452, AI963720, AW303002, AA018283, AA490183, AA780468, AA349927, AL039958, T41247, AA661921, AI307486, W74144, AI345157, AI700109, AA483929, AL138455, AI249573, AI732151, AA279421, AW264934, AI694130, AA724922, AA747070, AL041619, AL046409, AW069769, AA486131, AI754336, AA533333, AI306324, F00107, AA780515, AW003107, AL138396, AI925579, AA482711, AI610603, AI696962, AI369580, W77807, W72692, AA388190, AW088846, AA654781, AA480792, AI791913, F05324, AI792133, AI821714, AA206721, AA493136, AI610840, AA553406, AA218835, N47224, AW190615, AA478355, AI431303, AI499588, AA493804, AA744059, AI393931, AI004704, AA834707, AI270117, AW088616, AA630672, AL046156, AW023990, AW268757,

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H86363, AA640410, AA604430, AL037683, AW161978, AAS84201, AW104030, AI031973,
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HEOMX61	2129	958233	1-535	15-549	
HEOMX65	2130	575919	1-451	15-465	Z98950.
HEOMX92	2131	919200	1-422	15-436	N63479, T66032, AA196156, T47172, AA305334, AI124664, AI537310, AA401240, AA761876, AA769559, AA404287, AI925653, AA314294, AA581238, AA312605, AA032022, AA031911, AA425438, AA468322, F00487, AA420494, AA324750, U95740, AC004770, AL049759, AL035524, AC006237, AL035458, AF086934, AC005572, AC005772, AL109623, AC006211, AC004938, AP000354, AC006996, AC002492, AP000064, Z98946, AL110122, AC002091, AC004084, AL022165, AL008582, AL023581, AC004888, AC006511, AC006057, AC006512, AL049829, Z47066, and AC007381.
HEONC06	2132	855649	1-643	15-657	H06248, H13011, M89651, and AF004222.
HEOND75	2133	918209	1-314	15-328	
HEONJ79	2134	506226	1-333	15-347	
HEONK15	2135	660365	1-430	15-444	AC007032
HEONM30	2136	692726	1-311	15-325	AC000303, and AF081946.
HEONM69	2137	855638	1-507	15-521	
HEONN28	2138	745144	1-454	15-468	AL041375, AI053477, AW274078, AI431513, AI376239, AW089016, AA225890, AA503298, AA664604, AW162047, AW162303, AA557945, AI014843, AA944737S, AW270258, AW078909, AW193493, AW302315, AA609834, AA947265, AW341955, AW089950, AA657374, AI439910, AA478802, AW190484, AI865196, AA489390, AI243793, AA669234, AI610737, AI039187, AW243793, AA483606, AI572680, AI371208, AA299589, AI292317, AI565126, AA405726, AA570740, AA652834, AA492105, AA805848, T74524, AA287570, AI473671, AA720732, AW068808, AW065807, AA255853, AA568204, AI654738, AA469230, AA487475, AA608520, AI039089, AL049869, AC002316, M87914, AC007371, AC004491, AC004084, U47924, AC005089, AC006597, AC002996, AC006509, AP000689, AC007536, AC007637, S42653, Z86090, AL080243, AC005632, AL049776, AF196969, AC006948, AC004890, AP000704, AL096791, AL031848, AL049636, AL022326, AC007358, AP000688, AC005037, AC002543, AL031005, AC003098, AL035587, AF047825, AL096712, AL133396, AC004455, AL121653, AC002038, AC000087, AC000092, AL049830, AL031776, AL024498, L24093, AC004796, AC022322, AC005837, AL049570, AC005800, AC009510, U07561, AL096701, AC005913, AL117258, AF205588, AL035403, AF001549, D87675, AP000065, AP000556, AL034418, AL035088, AC003663, Z83844, AC006664, AC002312, AL023807, AL049692, AL133500, AC005081, AC005365, Z98200, AC006511, AP000134, AP000212,

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HEONQ081	2139	792074	1 - 283	15 - 297	
HEONP01	2140	792377	1 - 368	15 - 382	AW392300.
HEONQ08	2141	959556	1 - 699	15 - 713	AI378653, and H07239
HEONQ19	2142	930705	1 - 897	15 - 911	AA532915. AI625739, AW272001, AI435829, AA147072, AI609268, N91272, AA147105, AA834526, W27700, AA126003, AA602530, AA398168, AW294288, AW004619, AI202250, AL119565, AB007884, and AI250425.
HEONQ58	2143	965881	1 - 506	15 - 520	AA683299, and AC005075.
HEONQ65	2144	967588	1 - 340	15 - 354	
HEONQ69	2145	556544	1 - 355	15 - 369	
HEONU26	2146	577429	1 - 491	15 - 505	AA845825, AA503018, AI862790, AI246061, AI792537, AI270853, AI252826, AI254046, AI251643, AI435754, AW086343, AI224728, AW301997, N29930, AI271005, AI249565, AI254826, AW271081, AI224422, AI251312, AI252060, AW302086, AI254783, AI307025, AI472900, AI254056, AI254683, AI223591, AI252493, AI284764, AI224311, AW086227, AI435896, AI053574, AW167330, AI162442, AI682310, AI884861, AA857812, AA862014, AA340153, AI864500, AA468494, AI255060, AW271137, AI252996, AW302016, AA678616, AA662905, AI683019, AI289050, AA076473, AA728911, AI085095, AI284092,

AA364150, AI499941, AI185394, AI472782, AI419337, AI361090, AA633565, AA084950,
AA935380, T34558, AL119563, AA848892, AI421950, AW026305, AI054090, AI690335,
AA486352, AW054936, AA468956, AI249853, AI284543, AI254770, AI798242, AI251944,
AI251034, AI251203, AI251284, N76555, AI250552, AI279417, AA665304, AI570805,
AW021007, AI049534, AA741301, AL138065, AA579393, AW192518, AW078821, II39839,
AW408767, AW390284, AI347865, AA644223, AA599749, AA581498, AI172736, AW265688,
AI155246, AW328370, AA224525, AW440568, II86579, AA678932, I125626, F09355,
AW081610, AA345594, N67313, AW342143, AA757426, AA610713, AI803741, H93152,
AI889995, AA773881, AI538236, AA126814, AI671077, AI251241, AI678476, N75706, N25079,
AA018923, AI065043, AA012829, AA244181, AI223626, AA197019, AA610775, AI591134,
AA558366, AW019964, AW079667, AW30309X, R35259, AI890753, AI343669, AI309121,
W44359, F17537, T08386, AI63246, AA618240, AA678622, AA610255, N70449, AI791718,
H10454, AI860535, AA748071, AI285493, AA916430, AI312090, AL044488, AI312784,
AL133906, AL133902, AI866996, AA426451, AI889426, AI520967, AI760700, AA572983,
AI376197, AI567941, AA019442, AI679759, AI205783, AI523865, AI114653, AA714955,
AA05346.1, AI889579, AI524957, AA632988, AA295893, AW087226, AA501441, AI550282,
AI270442, AA083681, AC006010, AC005274, AC005004, AC007738, Z84466, AC004933,
AL034549, U80017, AC005539, AF124730, AL031387, AC004111, AE014077, AC004209,
AP000513, AL022578, Z92540, AC009399, AC002432, AF001549, AC004787, AC004531,
AC007899, AC007462, Z84469, AP000281, AC002066, AC003695, AP000260, AC005031,
AI133269, AL049611, AC005886, AL031651, AP000039, AP000099, AC005377, AP000036,
AC005696, AC006501, AC004000, AP000046, AP000114, Z73496, Z96074, AF017104,
AC002480, AL031177, AC005728, AL049591, AL022162, AC002531, AC002377, AL133246,
Z94056, AF095901, AL031589, AL022394, AL024508, AC004999, AC010206, AF067844,
AL132987, AC005740, AC006080, Z98946, AL035530, AC005538, AF217403, AL049650,
AL022337, AC005071, AC002559, AP000688, AL035696, AC007253, AC005822, AL031230,
AL008729, AL078593, AC011625, AL049176, AL035652, AC009330, AL034553, AC001231,
AC005969, AL050350, AC005344, AC008119, AP000113, AP000045, AL049779, AC007346,
AL035400, AC009542, AC008498, AL078581, AC004811, AC005295, AC006454, AC005323,
AC004253, AC006367, AC004808, AC006443, AC007228, AL078584, D87009, AL024474,
AC007016, AC002352, AC006552, U91325, AC006000, AC005609, Z99570, AL049569,
AC005099, AC007298, AC004694, Z98751, Z68273, AC004552, AC007386, AP000506,
AC005058, AC004950, AC004584, AF191071, AL033381, AC004228, AC008928, AL117356,
AF123462, AB000882, AC004831, AL109865, AC007240, AC006013, AC003003, AF003528,
AL035089, AC005826, Z97054, AL049760, AC006379, AL022165, AC005725, AC002070,
AC006450, AF031076, AC004072, AL133321, AF031075, AL117258, U96629, AF139813,
AL135879, AL121790, AF064858, U91321, Z98884, AL031595, AC005304, AC005017.

HEONU75	2147	851054	1 - 215	15 - 229	AC003969, AC005293, AF031078, AL031311, AP000300, AL033397, AP030876, AC005831, AC007225, AC006088, AF207550, AL034184, AC005531, AC008040, AC000085, AC007371, AL022318, AC007284, AC003013, AC005229, AP000704, Z84487, AC004973, AC005066, AC002094, AL035405, AC018663, AC003077, Z86090, AL031321, AC004773, AC003025, AL049834, AC005091, AC007488, AC005028, AC009294, AF126403, AC004815, AB003151, AC006059, AC006948, AP000500, AC007637, AC012384, AC004087, AC005971, AL035691, AC006387, AL078638, AC004941, AL031123, AF045555, and AL031678.
HEONV59	2148	949152	1 - 376	15 - 390	
HEONW15	2149	575812	1 - 379	15 - 393	
HEONX19	2150	668740	1 - 363	15 - 377	AA282391, AA282047, AA281587, AA748355, AA721283, and Z83847
HEOOX49	2151	485897	1 - 480	15 - 494	
HEOOB36	2152	830013	1 - 363	15 - 377	
HEOOD03	2153	923505	1 - 502	15 - 516	AA404360, AW148964, AI290157, AA809125, AI433952, AA569565, T94858, AA601376, AI224583, AA428270, AA255832, AA885570, AW006124, AA811350, AA811673, AI133355, AA927531, AL036896, AA484699, AA018488, AA174108, AI457605, AA669458, AW419201, N76712, AI889236, AA491941, AI254463, N71264, AI252005, AA533977, AW403177, AA493464, AI047211, AI254267, AW08928, AA666172, T73227, AL044758, AA533066, AA225645, AA947997, AA533660, AI860406, AA493546, AI199578, T49381, AW379889, AI744890, AA130350, AI926104, AI125192, AL044096, AA199578, T49381, AW379889, R07303, AI271873, AI912307, AI610814, AL079508, AA359725, T07954, AA165504, AAJ84321, AA799599, AI978902, AP000563, AP000211, AP000133, AC003041, AR003151, AC005280, L78833, AC005484, AC006597, AC117339, AL022320, AC005562, AC005839, AL031311, AC006511, U91321, AC005632, AC004150, AP000211, AF064861, AC006026, AP000135, AC003072, AC004913, AL049869, AC007546, AC000052, AP000031, AL031846, Z84476, AC007030, Z98949, AC002310, AL096701, AF165926, AC006211, AL031282, AF111169, U91327, Z84474, AC004542, AL035606, AC004876, Z86090, Z83844, AC004967, AC002477, AC007421, Z83840, AL035587, AL034343, AC020663, AC000353, AC005209, AC005037, Z93241, AC007666, Z97054, AL109623, AC004983, AC006166, AL031662, AL078639, AC007226, AL031730, AC009516, AC005971, AC008372, AC005291, AC007277, AC007686, AC005014, AC004895, AC007207, AC004019, AC005529, AF207550, AC007376, AC006120, AL096791, AC002351, AC003950, AC005049, AC007055, AC008044, AC005089, AP000354, AL139054, AC005779, AP000692, Z15025, AC004797, AC006162, AC005399, AC007364, AC003982, AC005694, Z93017, AC004882, AB023051, AP000116, AC002350, AL033392, Z98941, AC004084, U91326, AC005358, AC003688, AC007263, AC004765, AL050341, AL035413, AP000689, AC049910, Z95703, AL034402, AL117337, AC005519, AC008134, AC004890, AL078581, AC003006,

HEOODS9	2154	738991	1-397	15-411	AC006960, AF118808, AF196779, AC005618, AP000114, AP000046, Z98051, AC006277, AL008725, Y18000, AC006285, AL133448, AC007204, AC004447, Z82171, AC008067, AC003030, AC002369, AL024509, AL031281, AC007919, AC003069, AL080243, AC004653, AF045555, AL034548, AP000030, Z82206, AC005531, D83253, AP000099, AL035660, AP000008, AP000512, AL034417, Z82191, AC002996, AC005730, AL008582, AC004859, AL031591, AC004878, U91323, AC006449, AL133445, AL121603, Z81369, AC005736, AC006312, AC005625, AC006509, AL121578, AL031432, AL122020, AP000036, AP000253, AL031666, AL049759, AL031427, AC003007, AC005755, AJ003147, AC006306
HEO6V40	2155	710800	1-357	15-371	
HEOPE28	2156	926837	1-589	15-603	AA286964, AI568687, AI680899, AA809497, AA746098, AA287967, AW452688, AA814524, AW130037, and AH028989
HEOPE58	2157	851009	1-463	15-477	AL078634, AP000117, AP000194, AP000313, and AP000650
HEOPF03	2158	839868	1-530	15-544	AC004954
HEOPF18	2159	918405	1-407	15-421	
HEOPF25	2160	934171	1-510	15-524	
HEOPF33	2161	969695	1-406	15-420	AA810065, AW205048, and AC003959
HEOPF56	2162	850925	1-687	15-701	U81192, AP000325, AP000054, AP000122, and AP000169
HEOPG01	2163	915047	1-476	15-490	AL031667
HEOPI69	2164	883161	1-580	15-594	
HEOPI73	2165	850936	1-597	15-611	AL121760
HEOPJ41	2166	855634	1-536	15-550	N91672, AC008122, AP000558, AC009516, U91318, AB020864, AP000555, AF003626, AP000501, AL049779, AP000553, and AL031984
HEOPK43	2167	930942	1-649	15-663	
HEOPK47	2168	966327	1-699	15-713	AC006987
HEOPK52	2169	883170	1-475	15-489	AC005913
HEOPK90	2170	850883	1-624	15-638	
HEOPN73	2171	851002	1-504	15-518	
HEOPN78	2172	918205	1-314	15-328	
HEOPN95	2173	973440	1-732	15-746	Z99396, AW392670, AW372827, AW384394, AW363220, AL119497, AL119355, AL119457, AL119319, AL119483, AL119324, AL119443, U46341, U46340, AL119391, U46349, AL119522, AL119363, U46350, AL036418, AL038837, U46351, AL119341, AL119335, AL119418, AL037051, AL036725, AA631969, AL119396, AL119496, AL036858, AL037205, U46347, AL119444, AL043029, AL042984, AL119439, AL119401, U46346, AL042614, AL039074, AL036924, AI142132, AL134525, AL134538, AL042544, AI142137, AL042965, AL042975, AL134902, AL119399, AL134536, U46345, AL043019, AL043039, AL043033,

HEOPC008	2174	958184	1-422	15-436	AL042551, AL038509, AL119464, AL042450, AL043011, AL043011, AL037694, AL037685, AL037526, AL036196, AL043003, AL036268, AL037639, AL036190, AL037082, AL038520, AL036767, AL037077, AL036774, AL036998, AL038851, AL038447, AL036238, AL036733, AL036719, AL037178, AL037027, AL037615, AL036679, AL036765, AL036191, AR066494, AR060234, AR1671, AR023813, AR064707, AR054110, AB026436, and AR069079
HEOPPP30	2175	850916	1-418	15-432	R93882, R99079, AA846981, N70425, AI271762, AA563770, AC007225, AC004019, AC006121, AC000052, AL031427, AC007279, AP006690, 1195740, U73167, 1190094, AC006071, AL049569, 277852, AP000151, AC005484, AC005014, AC008154, AC005539, AC002565, AC002214, AC003665, U80017, AC004084, AC007993, AC007731, AL008718, AC005500, AC004491, AF001550, AC005081, AC005932, AC000159, AC000134, AC005952, AC020063, AL121653, AC005535, AC005844, AL049793, AC004851, AF205588, AF196969, AF000513, AC006084, AL133244, AB023049, AC006146, AP000115, AC004820, L78833, AC005295, AC006449, AC004686, AL031846, AF196970, AC005046, Z99716, AC006111, AL031255, AF042484, AC007226, AC006487, AF045555, AC005829, AC004910, Z85996, AC005920, AC003101, AC005921, AC002059, AL008582, AC005412, AP000694, AC005049, AP000689, AL109753, AC005527, AC004900, AC004797, and AC004099
HEOPQ06	2176	934147	1-637	15-651	AA631942, AI086196, AC005590, AC004224, AL022330, AL096678, AC004032, AC004645, and AC006237
HEOPW04	2177	850948	1-721	15-735	
HEOPW38	2178	926764	1-520	15-534	AC005189
HEOPW67	2179	840050	1-542	15-556	
HEOPX85	2180	855625	1-200	15-214	AI889579, AI160786, F35684, AI355246, AW019964, AA805014, T50676, H69992, AA837771, AA256107, AA077619, H60313, AW020198, AW173604, R67701, T83057, AA668905, AW247338, F19643, T62078, AA600132, AA634242, AA487226, AI915081, AA214457, AA354324, Z92546, AP000353, Z95979, AC004882, AC005529, AP000115, AC002077, AP000086, AC006211, AC006120, AC005018, AL009182, AC005620, AL009029, AC006084, U62317, AC004820, AC007225, AC006530, AC004701, AC005881, AC004815, AL031595, AL031984, AC005519, AC005094, AC004663, ZS2179, AC002988, AC005255, AL121603, AC004859, AL035405, AC005559, U47924, AC005740, AL035086, AC003692, AP000312, AP000193, AP000050, AP000117, AF001549, U52111, AL035703, AC005412, U91321, AL121658, AC004659, AL031587, Z98945, AC007388, AC006111, AC004762, AL049553, AC005031, AC000079, AL109963, AL022398, Z84487, AC000068, AL022334, AL008635, AC005532, AC005011, AC005046, AP000510, AC007057, U62293, AC005057, AF196972, AC005666, AL109827, AC007308, U80017, AC002470, AC005921, AP000688, AB026899, Z93244, AC007425, AC004216, U95743, AC005257, AF047825, AC005488, AC004675, AF207550, U89335, AL049434, Z98051, AL049434, Z98051, AP000221, AP000085, AL049795,

HEOPY05	2181	918438	1 - 494	15 - 508	AL049570, AC002477, AC004655, AL049823, AL031283, AF088210, AF024533, AC005534, AC005514, AC003678, AL031293, AC006346, AC003663, AC003689, AC007993, AC003071, AC007773, AC005261, AL109798, AC005082, AL049631, AC004042, Z99755, AC005089, AC005495, AC010170, AC006347, AC004217, AL022721, AC002314, AL034553, Z98941, AC005088, AP000092, AP000500, AC004819, Z97630, AC007200, AB020861, AC007435, AL121973, AL109865, L29766, AL049872, AC005624, AF001551, AL008707, AC005206, AC005667, AL035420, AC005152, AC008101, AC004099, AC006254, AL035422, AL008628, AC005510, AC008079, AL133246, AC005618, AC005696, AF217403, AF037338, AC007292, AP000691, AL049576, AC003665, AC003002, AC002316, AP000113, AP000045, AC004910, AC000059, Z95116, AL031230, Z82214, AC004943, AC005411, AC006581, AC007685, AC007066, AL049539, AC005070, AP000329, AL031781, Z99930, AP000123, AP000170, AP000055, AC000134, AP000501, AL031577, AF053356, AL135744, 191323, AC004033, AC002091, AC005034, AC004000, L78810, AC004049, AL109616, AC004851, Z99916, AL031677, AL031846, AL022326, AC005015, AL034429, AC006449, AL049843, AP000553, AC002350, X06292, AJ131757, AC003004, AC004644, AC005179, AP000255, and AC004752.
HEOPZ02	2182	918407	1 - 493	15 - 507	AW392670, AW363220, AL042614, AW372827, AW384394, AL119444, Z99396, AL119443, AL119341, AL119319, AL119457, AL119324, AL119324, AL119483, AL037205, U46351, AL119355, U46349, AL119484, AL119418, AL119391, AL119335, U46350, U46347, AL134524, AL134902, AL042978, AL119396, U46346, AL119522, U46341, AL042965, AL042975, AL042984, AL119401, AL134525, AL119496, AL119439, AL142132, AL043019, AL134920, AL119392, AL042433, U46345, AL042896, AL042450, AL043029, AL134536, AL134538, AL042544, AL042970, AL142131, AL042542, AL042551, AL119464, AL043003, AL119488, Z99572, AR066494, A81671, AR060234, AR054110, AB026436, AR069079, and AR043113.
HEOPZ05	2183	928257	1 - 166	15 - 180	AW090604, and L01057.
HEOPZ11	2184	965970	1 - 462	15 - 476	AA347231.
HEOPZ29	2185	878503	1 - 381	15 - 395	AA280922, AA090210, AI264291, AW148672, AA769639, and D29642.
HEOQB30	2186	909899	1 - 658	15 - 672	AA837771, AA573000, AA768179, AA635433, AA993165, AA664248, D51877, AA385775, AA302660, AW419389, AA515172, AAS27109, AA568314, T07285, AI521042, T17135, AA078137, AI246061, AA078184, AA714073, H85587, AA610374, AA668148, AI244985, AA741968, R61195, AA720582, AI743129, AA832124, AA371410, H27788, AW089950, AA662629, R87135, AI572680, AI223968, AA658853, W39287, AP000115, AW341882, AI653781, AI761566, AA078509, AA078509, AC005004, AF001549, AC005722, AP000355, AL031781, AC005071, AL031133, AC005037, AC005037, AF001549, AC005722, AP000355, AL133445, AL021391, AF047825, AL031985, AC004587, AC005300, AC005193, AP000212, AP000134,
HEOQC10	2187	963398	1 - 386	15 - 400	

7057, AL031663, AL049872, AP000141, AC000353, AP000343, AC007263, 1594, AC000026, AF053356, Z85987, AL035416, AC005632, AP000555, 2476, AL136295, AC005015, AC002470, AF196970, AC005914, AC005881, 1312, AC004480, AC004033, AP000088, AL022721, AC004797, AL121658, 1744, AP000802, AC007731, AC006241, AC003029, AP000044, AP000112, 5800, AC005046, AL049776, AC006257, AL033397, AP000354, Z93017, 5921, AF196971, AC005911, AC006455, AC005519, D87675, AL022322, 0895, AB016897, AP000344, AL049869, AC004887, AC006111, AC005520, 5971, AC006441, AC007151, AP000512, Y10196, AC005231, AL022329, 7, AF100907, AL035887, AB026898, AC005225, Z93931, AL133249, Z85996, 5353, AL022326, AL11732R, AL121825, AC004655, AC003973, AC005189, 1883, Z99716, AC007226, AC007637, AC005412, AC005480, Z74739, 2712, AL031670, AP000359, AL034429, AC003101, AC004000, AC005069, 7308, AC007738, AC005537, AC005924, AL009183, AC004150, AC007262, 6049, AC007021, AC006312, AC005291, AC006946, AL031186, AL022238, 5274, AL109758, L44140, AP000014, AL031584, AC004836, AC002504, 2085, AC005512, AC005746, AC002312, AC005011, AL109952, AF111167, 3575, AL049569, AC005041, AL080243, AL031005, AC002055, AL139054, 4, AP000011, AC007066, AL132826, AC004492, AC006948, AF029308, 057, AC005821, AL117352, AL035420, AC004796, AC007030, AC002563, 1321, AL109628, AL023581, AC004961, AC004638, AC005536, AC000075, 1054, AC004491, AC005409, AC004383, AC004996, AC007686, AC006116, 1754, AC005102, AC005280, AC002511, AC004477, AC006449, AC004242, 0085, AC004884, AC004682, AC006376, AC006285, AL035458, AC007687, 5599, and AP000240.

7, AA368329, AW019964, AI160786, AW440451, AA582746, AA071045, 1, AI446561, AA937618, AI753536, AW265688, AA584655, AA714073, H65316, AI298079, AA730015, AI860535, AW367942, T50676, H54252, 12, AA657910, AI198718, H29914, H53284, AA077637, AA513884, AL041352, 3, F11421, AI246386, AI583978, AI799421, AA565911, AA551110, AW190277, 2414, AA445908, AI929298, AI929825, AA683069, AI130709, F26713, 95, AI671077, AW161016, AW079737, AW272640, AW275432, AW157180, 4011, AI609972, AI814682, AI291439, F31575, AA678472, AA572987, 7215, AI858272, AA297698, AA297006, AA558404, AL039109, AA378207, 4594, C14330, AI368732, H73550, AL045476, AA486820, AI432298, R93919, 9227, AA612578, AA745628, AI583291, AA564682, AA122310, AA282951, 4580, AA584800, AA772704, AA093114, AA611761, AI634187, C16358.

| HEOQC76 | 2189 | 909032 | 1 - 645 | 15 - 659 | AI619994, H10577, AW148775, AA862029, AA662615, AI457313, AI733717, AA559166, AI271762, AI431513, AI633386, AI249688, AA599423, W81372, AW302670, AW408596, AA460692, T94394, R64640, F04252, AA513351, AA610255, AW028950, F36158, AI345334, AA715962, AA015948, Z98474, T51556, AL037533, AI889579, AI355246, AW020891, AI758799, F31811, AA297496, AA66412b, AI190648, H40478, AA358178, AA653713, AL078474, AL109963, AL110122, AL049833, AC008101, AC008079, AF000466, AF196969, AL109865, AC006084, AC006196, AF111168, AC007201, AL049829, AI004799, AC004820, AC004000, AC002347, AC002385, AC005837, M87912, AC008975, AC004150, AL049539, AL049696, AL050327, AL049776, AC007225, Z68129, AC004499, U52111, AL021453, AC005509, AP000022, AP000163, AC004217, AL023095, AL049563, D86992, I88270, AC004587, AC008062, AC007637, AC016025, AL008635, AB017653, AC005559, AC005581, AC006398, AC005393, AC003109, AC005018, AF019406, AL050341, AL109983, AF006689, AB003151, AC002429, AC007012, AL022334, AC006476, Z84469, AC002477, AP000299, AL035086, AF039907, AC005156, Z83844, AC005411, AL109627, AC006979, Z93244, AC008085, AC006121, AC005871, AL049569, AP000501, AC006430, AC004598, AC005193, AL031680, AC003051, AC003665, AC005859, AL117356, AC005228, AC004551, AC002070, Z49769, AC005566, AL050306, AJ246003, AC005511, AC005516, AC002368, AC004913, AL008707, AB006136, AL022328, AL035681, AC005828, AF037338, AP001063, AL022313, AL035088, AL117355, AC005972, AC005747, I34294, M87889, Z82217, AC004257, AC002369, AC005912, AP000692, AC004797, Z82176, AC005702, AC004262, L47234, AC003002, AL022399, AP001053, AC002302, AC006141, AF047825, Z96074, AC004404, AC005225, AC006531, AL022721, AP000065, Z84466, AF027391, AL009183, AC002059, AL034420, AL021920, AL109653, Z85996, AC005539, AC004596, AC002059, AL021546, AC005261, Z49235, AL008637, AL035682, AL049697, AC005034, AC007786, AP000557, AL031848, AP000113, AP000045, AC004611, AC002128, AC006137, AC007279, AC007247, AP000350, AL022323, Z49236, AL022329, AL109977, AC005412, AC007676, AI313341, L31565, AL096818, AF176815, U82668, AL035090, AL035079, AP000031, AC005821, AL133353, AL050320, U10087, Y12508, AL022333, AC006537, AC002116, AC005783, AC004961, U78027, AL035422, AL031904, AL121603, AL049636, AL035405, AP000503, AC006011, AL035413, AC000075, AC000084, AC002491, AC002056, AL031730, AC002554, AC007837, AL022318, Z85994, AL079340, AC005737, AL049839, AL078603, AB018295, AC007059, AC003963, Z98885, AC005800, AL109839, AB004907, AL034451, AF129756, AC004597, AL031662, AC005015, AL022326, AL079342, AL049743, AC004703, Z77852, AC005291, AC006133, AC003048, Z97876, AL035551, AL049814, AB001523, AC005914, Z84487, AL050325, AC022517, AC004832, AC016928, AC005726, AL021391, AF134726, AC002558, AF030453, Z98752, AC002306, AC004106, AC005256, and AF038458.
| | | | | | AA279563, and AA490433. |

HEOOE04	2190	922876	1-480	15-494	AA381451.
HEOQF77	2191	850974	1-403	15-417	AA714278, AAX27817, AA483603, AI032875, R44616, AL036300, AI243933, AA135806, AP004051, AL008630, AC002352, AC014893, AC002115, AC002045, AC005889, AC005756, AC005952, AL031273, AL020997, AL031311, AC005667, AP000313, AP000194, AP000050, AC011504, AF001548, AP000117, AC005488, AC004491, AF053356, AC004659, AC004834, AC002364, AL096775, AC000113, AC005551, AC005081, AC005086, AL031686, AC003666, U63313, AC004897, AL117694, AC004382, AC000082, AC000883, AC005792, AL049539, AC004905, AP000032, AC002425, AC005479, AL035088, AC002070, AL049539, AL033517, AF003529, AC005049, U96629, AC003101, AC000070, AC005620, AC002527, AF196972, AP000355, AC009288, J03764, AP000013, AP000154, AC005015, AC004653, AC002302, AC000091, AC002310, AF030453, AC005088, AC007207, AC004841, AF184614, AC002522, AC004602, AC000095, AC004528, AF024533, AL035073, AC005841, AP000008, AC005800, AL049745, AC002992, AC002312, and AC022517
HEOQG73	2192	958109	1-584	15-598	R95051, AA491864, AI745457, AC004770, AC004228, AC002470, AC005550, AL031670, AF053356, AC000092, AC005527, Z85986, AC000134, AC005529, AP000555, AP000885, AL034429, AC004530, and AL008709.
HEOQG80	2193	850971	1-448	15-462	AI868365, AL132777, AL031651, AF111168, AC002115, AC002381, and Z68323.
HEOQH81	2194	934100	1-597	15-611	AA708108, AA504896, AA811208, AI590941, AA486226, AC004883, AC005529, AC005015, AC005527, AC002470, AC002375, AC004895, AC005971, AC004598, AL031286, AC007537, AC000025, U82671, AC007216, AF001549, AL009181, AL035458, AC005081, AC002316, AC004974, Z69917, AP000298, AC005690, AC005277, AL078587, AL109627, AC005538, AC004531, AF039907, AL031668, AC000134, AP000701, AL049757, ZS2182, AC005274, AC005011, AL049869, AC006017, AP000354, AC003684, AL008718, AC009516, U78027, AP000044, AP000112, AL021968, AL035413, AL031311, AL035422, AL031295, AC005377, AL031428, AC000731, AC004858, and AC007308.
HEOQI11	2195	965973	1-587	15-601	AA533768, AI820985, AA620562, AI720732, AW404354, AA088727, AW082470, AA984114, AI590906, AW084604, AC006036, AC005548, AC005972, AL031662, AC004185, AP000509, AC004024, AF017104, AF141309, AP000563, AL049845, AP000210, AP000132, AC004522, AF129756, AC008009, AC006211, AC000062, M64231, AP000348, AC006504, AL050343, AC002477, AC004087, Z74739, AL023494, AC007684, AC003043, Y14768, AC004874, AP000505, D84394, AF165926, AC007102, AC008063, AC007639, AC004491, AC004887, AF196972, AC004253, AC005484, AC004787, AC016831, AP000503, AL133312, AF134726, AL035667, and AL121653.
HEOQI11	2196	879559	1-552	15-566	AC002536, and AB029488.
HEOQK70	2197	934370	1-601	15-615	AI384351, AL119484, AW392670, AL119439, AL134530, AL134519, AW372827, AL119391, AW363220, AL119319, U46347, AW384394, AL119457, Z99396, AL119324, AL119522, AL119363, AL119355, AL119497, AL134528, U46351, AL119341, U46350, AL119396.

| HEOQK72 | 2198 | 847285 | 1 - 147 | 15 - 161 | AL045891, AL135012, AL134524, AL043089, AL043321, AL043321, AL042488, AL042655, AL046356, AL432644, AL047163, AI431307, AL047611, AL042898, AL042515, AL045328, AL041862, AL042508, AI43131f6, AI432666, AL042853, AL042729, AL042931, AL040207, AL042787, AL043091, AI623302, AL043239, AI431238, AL047675, AL042533, AI866786, I46344, AI699946, AW151136, AI539771, AI537677, AI494201, AI500659, AI866465, AI815232, AI801325, AI500523, AI538850, AI887775, AI582932, AI923989, AI284517, AI872423, AI59004.3, AI648567, AI500706, AI445237, AI491776, AW151138, AI521560, AI889189, AI500662, AI582912, AI284509, AW172723, AI539800, AI440263, AI889168, AI538885, AI866573, AI633493, AI434256, AI866469, AI805769, AI434242, AI888661, AI284513, AI500714, AI888118, AI285439, AI436429, AI859991, AI860003, AI355779, AI623736, AI371228, AI581033, AI440252, AI491710, AI610557, AI860003, AI242736, AI828574, AI887499, AI539781, AI539707, AI702065, AI885949, AL042420, AW089557, AI559957, AI521571, AL042802, AI469775, AI866581, AI815150, AI567953, AI446495, AI433157, AL047092, AI890907, AI561170, AI927233, AI432656, AL043166, AW151179, AL042745, AI285419, AI554821, AL042741, AI432653, AI431323, AI431321, AI431315, AI371251, AL039390, AI866510, AW081103, AI289791, AI866461, AI923046, AI600948, AL045620, AL047017, AL042523, AI521596, AI440238, AL046681, AI499581, AI539863, AL079977, AI366900, AI866820, AW197139, AI923061, AI275175, AL045800, AL042551, AI582926, AW058275, AI499463, AI610362, AL119748, AI434222, AI440239, AL042744, AI274759, AI537273, AI436456, AI371265, AI963846, AI567940, AI610357, AI817244, AI612913, AI285826, AI863014, AI355765, AI521594, AL499512, AI433976, AL042365, AI889133, AI538881, AL048403, AI288281, AL039276, AI282268, AW087954, AI355017, AI434255, AL047422, AL043278, AI434223, AI285432, AI697243, AI671642, AI610429, AI628850, AI433968, AI476086, AI557187, AI433155, AL042944, AL045163, AI539632, AI889148, AW118237, AI439995, AI539847, AI521465, AI828583, AL042538, AI872300, AI554827, AI863357, AW172745, AI354998, AI863197, AI567944, AL042865, AI567935, AI805762, AI610426, AL043295, AI867068, AW080700, AL046990, AI355008, AI431246, AI271234, AL042572, AI610402, AI567971, AL042377, AL042557, AI538878, AI388665, AI432654, AI366910, AI049859, AI432650, AI866457, AI499555, AL042842, AI567954, AI537191, AI866491, AI654276, AI567993, AI499915, AI499508, AI817373, AI872315, AL048390, AI273179, AI284515, AL031667, AL133053, AL122101, AL133049, AL133074, AL133076, Y10655, AL137267, AL122049, A85203, AR034821, Y17793, AF113694, AL049423. |

AL119483, AL119443, U46349, AL119444, AL134525, AL135012, AL134524, AL134527, AL134531, AL134536, AL134518, U46341, AL037205, AL134902, AL134518, AL119496, AL119235, AL119401, AL119418, AL042544, AL042614, U46346, AI142137, AI142132, AL119399, U46345, AL043019, AL031066, AR066494, AR060234, A81671, AR069079, AI026436, AR054110, and AR043113.

				AL133655, U30290, E13998, AL050280, AL049464, M30514, L31396, U68387, L31397, AL133084, AL133070, AL110159, S61953, AL133082, AL050146, AL122093, AL133072, AL122110, AL133080, AL133081, AL133077, AF081195, E07361, AF002985, U58996, AL133607, AL133644, AL133015, AL133608, AF161699, AR055519, Y07915, J80064, AL049300, and AR066494
HEOQM83	2199	850964	1 - 588	AA341080, AW249300, AW392934, AA773513, AA176554, W93722, AI597867, AC006252, Y17169, and AL136773.
HEOQN06	2200	934202	1 - 759	AA774831.
HEOQN15	2201	864110	1 - 211	
HEOQN87	2202	850957	1 - 468	AA680243, AI732120, AA453558, AW406162, AA938105, AA679936, T40452, AA601908, AA806796, AA205915, AA774222, AL121235, AA347241, AL046457, D82290, AA496508, D82542, AA836811, AL048125, AI110760, AI924251, AA524821, AA309841, AL079869, AA533303, R70821, AI799545, N23649, T74382, AI093030, AI133297, AA508359, AA483223, AI038990, AW075511, H71429, AA722372, AI816537, AA747777, AW245747, AA846952, T07249, AL036037, AW438555, AI284640, AA587600, AA605272, AW248847, AA502104, AI754955, AA580808, AI270117, AW023990, AA584167, N27329, AA700729, AA632868, AA496260, AA652057, AA324849, AA837655, AI274692, AA613232, AW303196, AW274349, AL038705, AA224525, AA214342, AW301350, AA992351, AI581283, AI334443, AW419262, AI370074, AA503015, AL041706, AI431303, AW193265, AL046205, AL041690, AI350211, AW072923, AA584581, AA192740, AW302013, AI631119, AA178953, AA810269, AI744826, AA634889, AA613227, AA632612, AA720702, AW128900, AW128884, AW088224, AL046409, AI370094, AI364020, C06151, AA613203, AI364026, AA658362, AA834713, AI281881, AA614070, AA828712, AA568341, AW301302, AI572994, AW088058, AW021583, AA526787, R95139, AA618412, AL049400, AI499938, AA493621, AA568862, AI819574, AA847499, AI473475, AA478355, AW438643, AW276435, AI432270, AI919265, AA834755, AA490183, AW022406, AA513136, AI537506, AI053672, AW274346, AW245325, AA491136, AA847952, AA515440, AW270382, AA649604, AA804962, AW410400, AA367986, AA483771, AA856954, AA366312, AL119691, AW021297, T41247, AP000038, U07562, AC002301, AC004690, Z98036, AF109007, AF196779, AL023494, AC005324, AL049776, AC009516, AC007686, AL035587, AL031846, AC004858, AC005406, AF088219, AC007298, AL022476, AC004854, AC007243, D87675, AC006359, AP000352, AL050321, AL034420, AC005231, AC008072, AC005274, AL096769, AP000088, AC004675, AP000240, Z86090, AC004517, AL035681, Z98884, AP000553, AL008718, AC002365, AC003085, AC005725, AL117258, AC000358, AC006285, AC007136, AL022329, U96629, AC007051, AC000353, AC006965, AC004671, AC005763, AC006486, Z92845, AC008372, AL020995, AC007955, AC002418, AC007683, AC004848, AC004386, AL031584, AC007283, AL049829, AL049832, AC004019, AC003035, AC002119, AC007041, AC005907, AL122020, AL034548, AC006275, AL121603, AC000052, AC009069,

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HEOGP44	2203	942596	1 - 1810	15 - 1824	AL042026, AL040542, AL042640, AL042540, AL046135, AL041808, AL041808, AL044364, AL043613, AL044413, AL043840, AL042334, AL041585, AL044583, AL044354, AL041936, AL039459, AL039576, AL040947, AL046244, AL043201, AL039604, AL039472, AL046383, AL043218, AL039689, AL044015, AL044350, AL039550, AL043425, AL042346, AL043424, D11960, AL045991, AL079876, AW450335, AL044377, AL042700, AL043468, AW297822, AL043795, AI546832, AL043128, AL044029, AL044245, AL044771, AL042712, AL036650, AL043867, AL049007, AL036630, N84802, T23658, AL039924, AL046097, AL040414, AL044412, AL040571, AL046994, AR035193, AI3393, A49045, A58522, A58523, A58524, A58525, A64973, A82653, A83151, A83642, A83643, A84772, A84773, A84774, A84775, A84776, A86792, A93963, A93964, A95052, AR017907, AR027100, AR067731, AR067732, E12615, E16636, I28266, I44516, AI7115, AI8079, A27396, A98767, AR028564, I63120, A02710, A02712, A07700, AI3392, A22413, A25909, A60955, A68104, A68112, A76773, A91750, A93016, AR009151, AR009152, AR068551, A02228, AI3388, AI8050, AI8053, A23334, A23633, A23998, I21869, AR068550, A38214, A38214, A44171, A48774, A48775, A49700, A58521, A58998, A60111, A24782, A24783,

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HEOQS11	2204	965930	1 - 310	15 - 324	
HEOQT57	2205	850931	1 - 644	15 - 658	Z99396, AW392670, AL036418, AL038837, AW384394, AL037051, AW363220, AW363225, AA631969, AW372827, AL036858, AL119497, AL039074, AL119324, AL119443, L46350, AL036924, AL119319, AL119357, L46341, AL119356, AL119484, AL119363, AL119341, AL119391, AL119335, AL119355, AL038509, AL119522, AL039564, AL039985, L46349, AL039156, L46351, AL039108, AL039109, AL039128, AL119496, U46347, AL037639, AL037094, AL119418, AL039659, AL119399, AL037085, AL037526, AL119444, AL036196, AL036190, U46346, AL079683, AL042614, AL037205, AL038531, AL119439, AL119488, AL036268, AL036767, AL038520, AL037082, AL042965, AL042975, L46345, AL134533, AL134528, AL039625, AL039648, AL045337, AL042984, AL036238, AL042551, AL134527, AL134538, AL042450, AL042909, AL037077, AL038447, AL042970, AL039678, AL039629, AL039386, AL042542, AL042544, AL043019, AL043029, AL037615, AL038851, AL043003, AL119511, AL038698, AL036733, AL037021, AL037027, AL037178, AL036719, AL119464, AL036774, AL036765, AL039410, AL037021, AL036679, AL036191, AL036886, AR060234, AR066494, A81671, AR023811, AR064707, AR069079, AR054110, AR043113, and AB026436.
HEOQT76	2206	850932	1 - 658	15 - 672	Z99396, AW392670, AL119497, AL036418, AL038837, AW384394, AL037051, AL036725, AW372827, AW384394, AA631969, AW363220, AL036858, AL119457, AL037051, AL036725, AW363220, AL039074, AL119391, AL039074, AL119443, AL119319, AL119335, L46346, AL119324, AL036858, AL119363, AL119496, U46350, U46350, AL036924, AL119324, AL036924, AL119355, AL119496, U46351, L46351, AL119483, AL119484, AL119355, AL119522, L46351, AL038509, AL119396.